

A Butane Dehydrogenation and Isomerization.

- 1 Equilibrium calculation for the dehydrogenation of butane.
2 Memorandum on alkylation, dehydrogenation and isomerization problems.
3 Memorandum on isomerization.
4 Manufacture of dehydrogenation catalyst.
5 Separation of butanes and butylenes by azeotropic distillation.
6 Catalyst evaluation method.
7 Design for dehydrogenation, isomerization and alkylation plant at Scholven.
8 Comparison of catalytic hydrogenation with chlorination dehydrochlorination
9. do. do.
10. Status of development work on hydrogenation, isomerization, alkylation at Leuna.
11. History of the development of dehydrogenation of isobutane, isomerization and alkylation at Leuna.
12. Comparison of catalytic hydrogenation with chlorination dehydrochlorination.
13. Octane No. of fractions of alkylate
14. Dehydrogenation of ~~butane~~ by chlorination.
15. Patent application for chlorination of paraffins.
16. Design of dehydrogenation, isomerization and alkylation for Böhnen.
16a Design of dehydrogenation, isomerization and alkylation for Wesseling.
17. Design
18. do. do for Pöltz.
19. do. do for Brüx.
20. Inspection data of alkylate blends.
21. Exchange of experiences on alkylation and related subjects.
22. Reworking of spent dehydrogenation catalyst.
23. Analytical data on alkylate.
24. Plant experiments on dehydrogenation of butane.
25. Butane and propane dehydrogenation with fixed catalyst bed.
26. Utilization of spent alkylation acid.
27. New design of dehydrogenation furnace at Pöltz.
28. Exchange of experience with dehydrogenation and alkylation plants.
29. Dehydrogenation of butane with fixed bed catalyst.
30. Drying of dehydrogenation catalyst.
31. Use of crocetin in alkylation.
32. Use of butylenes from Fischer-Tropsch for alkylation.
33. Conference on isomerization 4/21/42.
34. Experiments on the removal of butadiene from the reaction gases from butane dehydrogenation.
35. Enrichment of lower aliphatic olefins from olefin-paraffin mixture by absorption in silver solution.
36. Catalytic dehydrogenation of propane to propene.
37. Method of dehydrogenation of gaseous hydrocarbons.
38. Method of preparing valuable fuels (H_2SO_4 alkylation).
39. " " " (Cone. of C_4)
40. Solvent extraction of light olefins from olefin-paraffin mixtures.
41. Hirschbeck, - Catalytic Dehydrogenation of isobutane.

(B) Miscellaneous.

42. First period of operation of Arabin Plant.
43. Kuckuck - Correspondence Codes.
44. Dehydrogenation of 1-1-3-dioxane to amylene glycol.
45. Report or visit to Leverkusen re Syndol or Oxo alcohols (C_7-C_{10})

45. Determination of sulfur and chlorine in tin-containing oils.
 47. Determination of chromium and zinc in catalysts
 48. Determination of ~~copper~~ disulfide in benzene
 49. Use of Raman spectra in analysis.
 50. Method for recovering hydrogen-peroxide.
 51. Breaking of crude oil emulsion.
 52. Preparation of methylamine from methanol and ammonia
 the use of pressure and a catalyst.
 53. Experiments on preparation of adipic acid and alkyladipic acids.
 54. Chemical equilibrium in the Claus process.
 55. Production of synthetic montmorillonite from generator slag
 for treatment of used lubricating oil.
 56. Theory of electrolytic synthesis of sebacic acid from adipic acid.
 57. Determination of neutral oil content of phenol oils and phenol
 waste liquor.
 58. Solubility of cyclonexane oxime in cyclohexane.
 59. Phenolizing phenolic water by means of filter gas from the
 boiler house.
 60. Polyurethane
 61. Triptane.
 62. Method for refining waxy oils.
 63. Method for preparation of aliphatic diamines.
 64. Method of preparation of condensation products.
 65. Preparation of amines from aldehydes and ketones by hydrogenation
 in the presence of ammonia.
 66. Chemicals Report, April 1942.
 67. Preparation of aromatic amines by hydrogenation under pressure.
 68. Preparation of Diesel Oil #2B, coal middle oil through
 traction with butane-SO₂.
 69. CO₂ washer designs
 70. Parallel filtration
 (C) Catalytic Cracking.
 71a. Aviation Gasoline by catalytic cracking.
 71. Reconstruction of K.K. - experimental reactors.
 72. A fluid catalyst process.
 73. 40,000 ton/yr. catalytic cracking (K.K.), plant for Hoessbierbaum
 74. Catalytic cracking experiments: comparison between moving and
 fixed bed operation.
 75. Status of catalytic cracking of June 1942.
 76. A method of converting hydrocarbons through heating in the
 presence of a catalyst.
 77. Burning velocity of coke from catalyst in catalytic cracking
 process.
 78. Catalytic cracking of pure hydrocarbons.
 79. Catalytic cracking in a fixed bed - Report of Lewis pilot plant.
 80. Aircraft fuel from catalytic cracking.
 81. Fluid catalytic cracking.
 82. Catalytic cracking of hydrocarbons

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