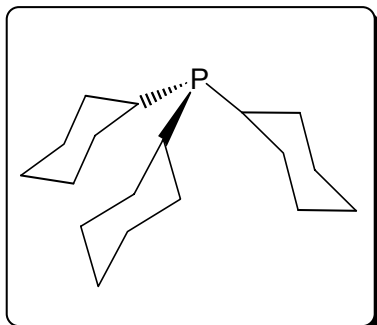


TRICYCLOHEXYLPHOSPHINE (in Toluene)

PRODUCT INFORMATION

DESCRIPTION

Arkema Inc. Tricyclohexylphosphine [CAS# 2622-14-2] is a colorless liquid in toluene at either 10 wt% or 20 wt% with the following properties:



TYPICAL PROPERTIES

Formula	C ₁₈ H ₃₃ P
Molecular Weight	280.4
Melting Point	(pure substance): 76-78 °C
Density (25 °C)	0.9 g/mL
Solubility	Insoluble in water. Soluble in organic solvents.

RECOMMENDED USES

Tricyclohexylphosphine may be used in the synthesis of ethyl alcohol,^{1, 2} as well as in the dimerization and hydro-dimerization of olefins.^{3, 4}

Tricyclohexylphosphine may be used in the hydrogenation of isoprene,⁵ as well as in the preparation of Phenylacetate and Prenol.⁶

Tricyclohexylphosphine may be used in the hydro-silylation of olefins,⁷ as well as in hydroformylation.

RECOMMENDED HANDLING

Tricyclohexylphosphine will rapidly oxidize upon exposure to air. Please consult the MSDS for proper handling procedures.

PACKAGING

Tricyclohexylphosphine is available in pail, drum, or bulk quantities.

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OTHER LIGANDS

Ligand	q ^a	pK _a ^b
Triphenylphosphine	145	2.73
Diphenylcyclohexylphosphine	153	5.05
Dicyclohexylphenylphosphine	161	7.38
Tricyclohexylphosphine	170	9.70
Tribenzylphosphine	165	6.00
Tri- <i>o</i> -tolylphosphine	194	3.08
Tri- <i>p</i> -tolylphosphine	145	3.84

^a Cone angle data taken from references (1) and (2)

^b pK_a data taken from references (1), (3), (4), (5), (6)

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REFERENCES- Recommended Uses

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2. British Petroleum Co., Eur. Pat. Appl. 1,937 (1979)
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6. Kuraray Co., Japan Kokai 77 10207 (1977)
7. Capka Martin, Czech. 171,597 (1978)
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NOTE: Please consult the MSDS for updated and detailed safety and health information.

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See MSDS for Health & Safety Considerations
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