Product Information

LONZACURE® DETDA 80

Formula: $\text{C}_{11}\text{H}_{18}\text{N}_{2}$

Structural formula:

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H2N
\text{NH}_2 + \text{H}_2\text{N} \text{NH}_2
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2,4-isomer 2,6-isomer

Molecular weight: 178.28

Specifications

Appearance: Clear liquid
Assay: min. 97.5% (area, calculated) (GC)
3,5-Diethyltoluene-2,4-diamine: 77.0 - 81.0% (area) (GC)
3,5-Diethyltoluene-2,6-diamine: 18.0 - 22.0% (area) (GC)
Toluenediamine: max. 0.05% (area) (GC)
Water: max. 0.10% (w/w) (KF)

Typical Properties

Stability: 1 year
Product darkens with time, when exposed to light, air and heat.
Boiling point: 132°C (4hPa)
Pour point: -15°C (ASTM D-97-66)
Density: 1.022 g/cm$^3$ (20°C)
Water solubility: approx. 10 g/l (20°C)
Other solubilities: Organic solvents: miscible (20°C)
Flash point: > 140°C (Pensky-Martens c.c.
DIN 51758)
Equivalent weight: 89 g/val (NH$_2$-Groups)
Ethyltoluenediamine: 0 - 2% (area) (GC)

Handling

Packaging: drums, IBC
bulk quantities in rail/road tankers or containers.
Toxicity: LD50 oral (rat): 738 mg/kg
Skin irritation (rabbit): non-irritant
EU labelling: Xn, N; R21/22-36-48/22-50/53
Transport: UN 3082, 9, PG III
Inventories: EINECS (EU)
TSCA (US)
AICS (Australia)
MITI (Japan)
DSL (Canada)
IECSC (China)
KECI (Korea)
PICCS (Philippines)
Swiss Poison List 1 (Substances)

For further information consult Safety Data Sheet