

Tritylazide

Other names:	Benzene, 1,1',1''-(azidomethylidyne)tris-Methane, azidotriphenyl-Triphenylmethyl azide
Inchi:	InChI=1S/C19H15N3/c20-22-21-19(16-10-4-1-5-11-16,17-12-6-2-7-13-17)18-14-8-3-9-15
InchiKey:	OZHQKHFCZKWF-C-UHFFFAOYSA-N
Formula:	C19H15N3
SMILES:	[N-]=[N+]=NC(c1ccccc1)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	285.34
CAS:	14309-25-2

Physical Properties

Property code	Value	Unit	Source
chs	-10106.00	kJ/mol	NIST Webbook
hfs	486.00 ± 1.00	kJ/mol	NIST Webbook
hsub	120.00 ± 1.00	kJ/mol	NIST Webbook
log10ws	-10.55		Crippen Method
logp	5.289		Crippen Method
mvol	228.630	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hsubt	120.60	kJ/mol	349.00	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14309252&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

chs:	Standard solid enthalpy of combustion
hfs:	Solid phase enthalpy of formation at standard conditions
hsub:	Enthalpy of sublimation at standard conditions
hsubt:	Enthalpy of sublimation at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

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