TRIPHENYLMETHYLAMINE

Other names: Benzenemethanamine, «alpha»,«alpha»-diphenyl-
Methylamine, 1,1,1-triphenyl-
Triphenylmethylamine
Inchi: InChI=1S/C19H17N/c20-19(16-10-4-1-5-11-16,17-12-6-2-7-13-17)18-14-8-3-9-15-18/h1-
InchiKey: BZVJOYBTLHNRDW-UHFFFAOYSA-N
Formula: C19H17N
SMILES: NC(c1ccccc1)(c1ccccc1)c1ccccc1
Mol. weight [g/mol]: 259.35

Physical Properties

Property code	Value	Unit	Source
af	0.5350		Cheméo Relay (1.0)
hf	350.01	kJ/mol	Cheméo Relay (1.0)
hfus	24.87	kJ/mol	Joback Method
hvap	91.13	kJ/mol	Cheméo Relay (1.0)
ie	7.78	eV	Cheméo Relay (1.0)
log10ws	-4.48		Cheméo Relay (1.0)
logp	3.937		Crippen Method
mcvol	217.270	ml/mol	McGowan Method
pc	2568.89	kPa	Joback Method
tb	633.21	K	Cheméo Relay (1.0)
tc	937.39	K	Cheméo Relay (1.0)
tf	343.52	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	615.28	J/mol×K	783.46	Joback Method
cpg	632.36	J/mol×K	830.48	Joback Method
cpg	647.72	J/mol×K	877.50	Joback Method
cpg	661.61	J/mol×K	924.52	Joback Method
cpg	674.27	J/mol×K	971.54	Joback Method
cpg	685.91	J/mol×K	1018.56	Joback Method
cpg	696.79	J/mol×K	1065.59	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	496.20	K	1.90	NIST Webbook

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5824408&Units=SI

Legend

af:	Acentric Factor
cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point