

3,3'-IMINOBIS(N,N-DIMETHYLPROPYLAMINE)

Other names:	Bis(3-dimethylamino-1-propyl)amine Bis-(dimethylaminopropyl)amine Bis(3-(dimethylamino)propyl)amine Dipropylamine, 3,3'-bis(dimethylamino)- Dipropylenetriamine, N,N,N',N'-tetramethyl- N,N,N',N'-Tetramethyldipropylenetriamine N'-(3-(Dimethylamino)propyl)-N,N-dimethyl-1,3-propanediamine 2,6,10-Triazaundecane, 2,10-dimethyl- 3,3'-Iminobis(N,N-dimethylpropylamine) N'-[3-(dimethylamino)propyl]-N,N-dimethylpropane-1,3-diamine
Inchi:	InChI=1S/C10H25N3/c1-12(2)9-5-7-11-8-6-10-13(3)4/h11H,5-10H2,1-4H3
InchiKey:	BXYVQNNEFZOBOZ-UHFFFAOYSA-N
Formula:	C10H25N3
SMILES:	CN(C)CCCNCCCN(C)C
Mol. weight [g/mol]:	187.33

Physical Properties

Property code	Value	Unit	Source
af	0.5935		Cheméo Relay (1.0)
hf	-110.92	kJ/mol	Cheméo Relay (1.0)
hfus	32.80	kJ/mol	Joback Method
hvap	61.38	kJ/mol	Cheméo Relay (1.0)
ie	7.76	eV	Cheméo Relay (1.0)
log10ws	0.15		Cheméo Relay (1.0)
logp	0.479		Crippen Method
mcvol	181.700	ml/mol	McGowan Method
pc	2125.60	kPa	Joback Method
tb	505.94	K	Cheméo Relay (1.0)
tc	667.20	K	Cheméo Relay (1.0)
tf	241.01	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
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cpg	437.82	J/mol×K	503.25	Joback Method
cpg	454.51	J/mol×K	530.53	Joback Method
cpg	470.48	J/mol×K	557.80	Joback Method
cpg	485.74	J/mol×K	585.08	Joback Method
cpg	500.33	J/mol×K	612.35	Joback Method
cpg	514.26	J/mol×K	639.63	Joback Method
cpg	527.57	J/mol×K	666.90	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	402.70	K	2.70	NIST Webbook

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C6711484&Units=SI>

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

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

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