4,9-Dioxa-1,12-dodecanediamine

Other names:	4,9-Dioxadodecane-1,12-diamine
	1-Propanamine, 3,3'-[1,4-butanediylbis(oxy)]bis-
	«alpha»,«omega»-Diamino-4,9-dioxadodecane
	Propylamine, 3,3'-(tetramethylenedioxy)bis-
	1,12-Diamino-4,9-dioxadodecane
	1,4-Bis(«gamma»-aminopropoxy)butane
	1,4-Bis(3-aminopropoxy)butane
	1,4-Butanediol bis(3-aminopropyl)ether
	3,3'-(Tetramethylenedioxy)bis(propylamine)
	1,4-Butanediol bis(«gamma»-aminopropyl) ether
	NSC 36635
	3,3'-[butane-1,4-diylbis(oxy)]bispropanamine
Inchi:	InChI=1S/C10H24N2O2/c11-5-9-13-7-3-1-2-4-8-14-10-6-12/h1-12H2
InchiKey:	ZEVPACPVGMDWTA-UHFFFAOYSA-N
Formula:	C10H24N2O2
SMILES:	NCCOCCCCCCOCCN
Mol. weight [g/mol]:	204.31
CAS:	7300-34-7

Physical Properties

Property code	Value	Unit	Source
gf	-43.78	kJ/mol	Joback Method
hf	-446.59	kJ/mol	Joback Method
hfus	34.43	kJ/mol	Joback Method
hvap	63.96	kJ/mol	Joback Method
log10ws	-1.05		Crippen Method
logp	0.497		Crippen Method
mcvol	183.460	ml/mol	McGowan Method
pc	2271.90	kPa	Joback Method
tb	618.10	K	Joback Method
tc	800.48	K	Joback Method
tf	413.44	K	Joback Method
vc	0.690	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	503.40	J/mol×K	618.10	Joback Method
cpg	518.23	J/mol×K	648.50	Joback Method
cpg	532.42	J/mol×K	678.89	Joback Method
cpg	545.97	J/mol×K	709.29	Joback Method
cpg	558.90	J/mol×K	739.69	Joback Method
cpg	571.19	J/mol×K	770.09	Joback Method
cpg	582.86	J/mol×K	800.48	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	408.20	K	0.50	NIST Webbook
tbrp	408.00	K	0.50	NIST Webbook

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method: https://en.wikipedia.org/wiki/Joback_method
McGowan Method: http://link.springer.com/article/10.1007/BF02311772
NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C7300347&Units=SI

Legend

cpg: Ideal gas heat capacity
gf: Standard Gibbs free energy of formation
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
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
vc:	Critical Volume