3-Dimethylamino-2,2,4,4-tetramethyl cyclobutanol

Inchi: InChI=1S/C10H21NO/c1-9(2)7(11(5)6)10(3,4)8(9)12/h7-8,12H,1-6H3
InchiKey: CFSSULJRBHLDFX-UHFFFAOYSA-N
Formula: C10H21NO
SMILES: CN(C)C1C(C)(C)C(O)C1(C)C
Mol. weight [g/mol]: 171.28
CAS: 1486-92-6

Physical Properties

Property code	Value	Unit	Source
gf	21.82	kJ/mol	Joback Method
hf	-298.33	kJ/mol	Joback Method
hfus	15.42	kJ/mol	Joback Method
hvap	53.43	kJ/mol	Joback Method
log10ws	-1.48		Crippen Method
logp	1.344		Crippen Method
mcvol	156.750	ml/mol	McGowan Method
pc	2651.56	kPa	Joback Method
tb	530.30	K	Joback Method
tc	715.00	K	Joback Method
tf	345.25	K	Joback Method
vc	0.575	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	404.37	J/mol×K	530.30	Joback Method
cpg	420.38	J/mol×K	561.08	Joback Method
cpg	435.45	J/mol×K	591.87	Joback Method
cpg	449.71	J/mol×K	622.65	Joback Method
cpg	463.29	J/mol×K	653.44	Joback Method
cpg	476.30	J/mol×K	684.22	Joback Method
cpg	488.89	J/mol×K	715.00	Joback Method

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=C1486926&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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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