5-Dimethylamino-2-methyl-3-pentyn-2-ol

Inchi: InChI=1S/C8H15NO/c1-8(2,10)6-5-7-9(3)4/h10H,7H2,1-4H3
InchiKey: VBARYRPUABJYGW-UHFFFAOYSA-N
Formula: C8H15NO
SMILES: CN(C)CC#CC(C)(C)O
Mol. weight [g/mol]: 141.21
CAS: 25400-83-3

Physical Properties

Property code	Value	Unit	Source
gf	196.08	kJ/mol	Joback Method
hf	-29.60	kJ/mol	Joback Method
hfus	19.29	kJ/mol	Joback Method
hvap	52.98	kJ/mol	Joback Method
log10ws	-0.91		Crippen Method
logp	0.322		Crippen Method
mcvol	130.830	ml/mol	McGowan Method
pc	3392.03	kPa	Joback Method
tb	492.83	K	Joback Method
tc	681.20	K	Joback Method
tf	381.73	K	Joback Method
vc	0.471	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	293.55	J/mol×K	492.83	Joback Method
cpg	305.92	J/mol×K	524.22	Joback Method
cpg	317.61	J/mol×K	555.62	Joback Method
cpg	328.65	J/mol×K	587.01	Joback Method
cpg	339.07	J/mol×K	618.41	Joback Method
cpg	348.91	J/mol×K	649.80	Joback Method
cpg	358.20	J/mol×K	681.20	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=C25400833&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