(E)-3-(Dimethylamino)-2-pentene

Other names: (E)-C2H5C(N(CH3)2)=CHCH3
Inchi: InChI=1S/C7H15N/c1-5-7(6-2)8(3)4/h5H,6H2,1-4H3/b7-5-
InchiKey: UCCDUMHVMOCMTB-ALCCZGGFSA-N
Formula: C7H15N
SMILES: CC=C(CC)N(C)C
Mol. weight [g/mol]: 113.20
CAS: 32317-47-8

Physical Properties

Property code	Value	Unit	Source
gf	190.51	kJ/mol	Joback Method
hf	-12.85	kJ/mol	Joback Method
hfus	15.80	kJ/mol	Joback Method
hvap	33.26	kJ/mol	Joback Method
ie	7.61	eV	NIST Webbook
log10ws	-1.67		Crippen Method
logp	1.862		Crippen Method
mcvol	115.170	ml/mol	McGowan Method
pc	2969.80	kPa	Joback Method
tb	376.04	K	Joback Method
tc	550.51	K	Joback Method
tf	182.08	K	Joback Method
vc	0.426	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	207.42	J/mol×K	376.04	Joback Method
cpg	220.54	J/mol×K	405.12	Joback Method
cpg	233.05	J/mol×K	434.20	Joback Method
cpg	244.97	J/mol×K	463.28	Joback Method
cpg	256.32	J/mol×K	492.36	Joback Method
cpg	267.13	J/mol×K	521.44	Joback Method
cpg	277.42	J/mol×K	550.51	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C32317478&Units=SI
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

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