Allyl-2-(n,n-dimethylamino)ethyl ether

Inchi: InChI=1S/C7H15NO/c1-4-6-9-7-5-8(2)3/h4H,1,5-7H2,2-3H3
InchiKey: OLYONRCXBJKEEM-UHFFFAOYSA-N
Formula: C7H15NO
SMILES: C=CCOCCN(C)C
Mol. weight [g/mol]: 129.20
CAS: 3205-11-6

Physical Properties

Property code	Value	Unit	Source
gf	101.68	kJ/mol	Joback Method
hf	-127.07	kJ/mol	Joback Method
hfus	16.82	kJ/mol	Joback Method
hvap	34.96	kJ/mol	Joback Method
log10ws	-0.26		Crippen Method
logp	0.751		Crippen Method
mcvol	121.040	ml/mol	McGowan Method
pc	2868.87	kPa	Joback Method
tb	391.10	K	Joback Method
tc	557.59	K	Joback Method
tf	221.59	K	Joback Method
vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.80	J/mol×K	391.10	Joback Method
cpg	243.90	J/mol×K	418.85	Joback Method
cpg	255.55	J/mol×K	446.60	Joback Method
cpg	266.77	J/mol×K	474.35	Joback Method
cpg	277.55	J/mol×K	502.09	Joback Method
cpg	287.91	J/mol×K	529.84	Joback Method
cpg	297.86	J/mol×K	557.59	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=C3205116&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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