2-(dipropylamino)ethanol

Inchi: InChI=1S/C8H19NO/c1-3-5-9(6-4-2)7-8-10/h10H,3-8H2,1-2H3
InchiKey: SWKPGMVENNYLFK-UHFFFAOYSA-N
Formula: C8H19NO
SMILES: CCCN(CCC)CCO
Mol. weight [g/mol]: 145.25
CAS: 3238-75-3

Physical Properties

Property code	Value	Unit	Source
af	0.6761		Cheméo Relay (1.0)
gf	-9.56	kJ/mol	Joback Method
hf	-318.47	kJ/mol	Cheméo Relay (1.0)
hfus	23.58	kJ/mol	Joback Method
hvap	63.61	kJ/mol	Cheméo Relay (1.0)
ie	8.20	eV	Cheméo Relay (1.0)
log10ws	-0.16		Cheméo Relay (1.0)
logp	1.101		Crippen Method
mcvol	139.430	ml/mol	McGowan Method
pc	2781.78	kPa	Joback Method
tb	472.15	K	Cheméo Relay (1.0)
tc	644.44	K	Cheméo Relay (1.0)
tf	223.77	K	Cheméo Relay (1.0)
vc	0.495	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	322.80	J/mol×K	487.06	Joback Method
cpg	335.11	J/mol×K	513.49	Joback Method
cpg	346.92	J/mol×K	539.93	Joback Method
cpg	358.26	J/mol×K	566.36	Joback Method
cpg	369.13	J/mol×K	592.80	Joback Method
cpg	379.55	J/mol×K	619.23	Joback Method
cpg	389.55	J/mol×K	645.66	Joback Method

Correlations

Information	Value
Property code	pvap
Equation	ln(Pvp) = A + B/(T + C)
Coeff. A	1.16743e+01
Coeff. B	-3.28787e+03
Coeff. C	-7.15740e+01
Temperature range (K), min.	314.35
Temperature range (K), max.	588.30

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

af:	Acentric Factor
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

pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume