LIDOCAINE, M(DESETHYL-), AC

Inchi: InChI=1S/C14H20N2O2/c1-5-16(12(4)17)9-13(18)15-14-10(2)7-6-8-11(14)3/h6-8H,5,9H2
InchiKey: HZNOQVABEWXBGB-UHFFFAOYSA-N
Formula: C14H20N2O2
SMILES: CCN(CC(=O)Nc1c(C)cccc1C)C(C)=O
Mol. weight [g/mol]: 248.32

Physical Properties

Property code	Value	Unit	Source
gf	102.48	kJ/mol	Joback Method
hf	-222.86	kJ/mol	Joback Method
hfus	36.60	kJ/mol	Joback Method
hvap	72.33	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	2.110		Crippen Method
mcvol	207.460	ml/mol	McGowan Method
pc	2216.62	kPa	Joback Method
rinpol	2115.00		NIST Webbook
tb	726.71	K	Joback Method
tc	934.74	K	Joback Method
tf	483.99	K	Joback Method
vc	0.776	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	578.99	J/mol×K	726.71	Joback Method
cpg	593.50	J/mol×K	761.38	Joback Method
cpg	607.06	J/mol×K	796.05	Joback Method
cpg	619.72	J/mol×K	830.73	Joback Method
cpg	631.53	J/mol×K	865.40	Joback Method
cpg	642.51	J/mol×K	900.07	Joback Method
cpg	652.72	J/mol×K	934.74	Joback Method

Sources

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=R255157&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume