Benzamide, 2-chloro-N-decyl-

Inchi: InChI=1S/C17H26ClNO/c1-2-3-4-5-6-7-8-11-14-19-17(20)15-12-9-10-13-16(15)18/h9-10
InchiKey: DHWFCIRYWTTYQL-UHFFFAOYSA-N
Formula: C17H26ClNO
SMILES: CCCCCCCCCCNC(=O)c1ccccc1Cl
Mol. weight [g/mol]: 295.85

Physical Properties

Property code	Value	Unit	Source
gf	143.58	kJ/mol	Joback Method
hf	-244.00	kJ/mol	Joback Method
hfus	44.33	kJ/mol	Joback Method
hvap	73.94	kJ/mol	Joback Method
log10ws	-6.27		Crippen Method
logp	5.210		Crippen Method
mcvol	250.420	ml/mol	McGowan Method
pc	1606.42	kPa	Joback Method
rinpol	2421.00		NIST Webbook
rinpol	2421.00		NIST Webbook
tb	761.49	K	Joback Method
tc	962.02	K	Joback Method
tf	452.80	K	Joback Method
vc	0.970	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	714.50	J/mol×K	761.49	Joback Method
cpg	730.47	J/mol×K	794.91	Joback Method
cpg	745.48	J/mol×K	828.33	Joback Method
cpg	759.56	J/mol×K	861.75	Joback Method
cpg	772.76	J/mol×K	895.17	Joback Method
cpg	785.13	J/mol×K	928.59	Joback Method
cpg	796.72	J/mol×K	962.02	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407438&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

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