Benzamide, 3-chloro-N-nonyl-

Inchi: InChI=1S/C16H24ClNO/c1-2-3-4-5-6-7-8-12-18-16(19)14-10-9-11-15(17)13-14/h9-11,13H
InchiKey: BTIGGUWEWZKVGX-UHFFFAOYSA-N
Formula: C16H24ClNO
SMILES: CCCCCCCCCNC(=O)c1cccc(Cl)c1
Mol. weight [g/mol]: 281.82

Physical Properties

Property code	Value	Unit	Source
gf	135.16	kJ/mol	Joback Method
hf	-223.36	kJ/mol	Joback Method
hfus	41.74	kJ/mol	Joback Method
hvap	71.72	kJ/mol	Joback Method
log10ws	-5.85		Crippen Method
logp	4.820		Crippen Method
mcvol	236.330	ml/mol	McGowan Method
pc	1737.56	kPa	Joback Method
rinpol	2375.00		NIST Webbook
rinpol	2375.00		NIST Webbook
tb	738.61	K	Joback Method
tc	940.67	K	Joback Method
tf	441.53	K	Joback Method
vc	0.913	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.60	J/mol×K	738.61	Joback Method
cpg	674.27	J/mol×K	772.29	Joback Method
cpg	688.99	J/mol×K	805.96	Joback Method
cpg	702.79	J/mol×K	839.64	Joback Method
cpg	715.73	J/mol×K	873.32	Joback Method
cpg	727.85	J/mol×K	907.00	Joback Method
cpg	739.19	J/mol×K	940.67	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=U407982&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume