Benzamide, 4-chloro-N-ethyl-N-undecyl-

Inchi: InChI=1S/C20H32ClNO/c1-3-5-6-7-8-9-10-11-12-17-22(4-2)20(23)18-13-15-19(21)16-14
InchiKey: FINQQHREUGLNQS-UHFFFAOYSA-N
Formula: C20H32ClNO
SMILES: CCCCCCCCCCCN(CC)C(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 337.93

Physical Properties

Property code	Value	Unit	Source
gf	190.23	kJ/mol	Joback Method
hf	-291.86	kJ/mol	Joback Method
hfus	50.02	kJ/mol	Joback Method
hvap	76.23	kJ/mol	Joback Method
log10ws	-6.90		Crippen Method
logp	6.333		Crippen Method
mcvol	292.690	ml/mol	McGowan Method
pc	1277.33	kPa	Joback Method
rinpol	2873.00		NIST Webbook
rinpol	2873.00		NIST Webbook
tb	792.40	K	Joback Method
tc	987.41	K	Joback Method
tf	466.42	K	Joback Method
vc	1.121	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	869.23	J/mol×K	792.40	Joback Method
cpg	886.77	J/mol×K	824.90	Joback Method
cpg	903.28	J/mol×K	857.40	Joback Method
cpg	918.81	J/mol×K	889.91	Joback Method
cpg	933.42	J/mol×K	922.41	Joback Method
cpg	947.16	J/mol×K	954.91	Joback Method
cpg	960.10	J/mol×K	987.41	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=U415333&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