Benzamide, N,N-dibutyl-4-chloro-

Inchi: InChI=1S/C15H22ClNO/c1-3-5-11-17(12-6-4-2)15(18)13-7-9-14(16)10-8-13/h7-10H,3-6,1
InchiKey: HBSQBZKONFNLBZ-UHFFFAOYSA-N
Formula: C15H22ClNO
SMILES: CCCCN(CCCC)C(=O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 267.79

Physical Properties

Property code	Value	Unit	Source
gf	148.13	kJ/mol	Joback Method
hf	-188.66	kJ/mol	Joback Method
hfus	37.07	kJ/mol	Joback Method
hvap	65.10	kJ/mol	Joback Method
log10ws	-4.81		Crippen Method
logp	4.382		Crippen Method
mcvol	222.240	ml/mol	McGowan Method
pc	1861.11	kPa	Joback Method
rinpol	1927.00		NIST Webbook
rinpol	1927.00		NIST Webbook
tb	678.00	K	Joback Method
tc	879.41	K	Joback Method
tf	410.07	K	Joback Method
vc	0.841	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	587.50	J/mol×K	678.00	Joback Method
cpg	603.63	J/mol×K	711.57	Joback Method
cpg	618.79	J/mol×K	745.14	Joback Method
cpg	633.02	J/mol×K	778.71	Joback Method
cpg	646.37	J/mol×K	812.28	Joback Method
cpg	658.89	J/mol×K	845.85	Joback Method
cpg	670.61	J/mol×K	879.41	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U308586&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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