Benzamide, 2-chloro-N-(2-chlorobenzoyl)-N-butyl-

Inchi: InChI=1S/C18H17Cl2NO2/c1-2-3-12-21(17(22)13-8-4-6-10-15(13)19)18(23)14-9-5-7-11-

InchiKey: BTPRRLZCSRYLPF-UHFFFAOYSA-N

Formula: C18H17Cl2NO2

SMILES: CCCCN(C(=O)c1ccccc1Cl)C(=O)c1ccccc1Cl

Mol. weight [g/mol]: 350.24

Physical Properties

Property code	Value	Unit	Source
gf	135.32	kJ/mol	Joback Method
hf	-153.84	kJ/mol	Joback Method
hfus	44.29	kJ/mol	Joback Method
hvap	85.84	kJ/mol	Joback Method
log10ws	-6.21		Crippen Method
logp	5.076		Crippen Method
mcvol	254.560	ml/mol	McGowan Method
pc	1950.95	kPa	Joback Method
rinpol	2511.00		NIST Webbook
rinpol	2511.00		NIST Webbook
tb	869.60	K	Joback Method
tc	1106.11	K	Joback Method
tf	562.67	K	Joback Method
vc	0.956	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	700.46	J/mol×K	869.60	Joback Method
cpg	712.82	J/mol×K	909.02	Joback Method
cpg	724.12	J/mol×K	948.44	Joback Method
cpg	734.44	J/mol×K	987.85	Joback Method
cpg	743.89	J/mol×K	1027.27	Joback Method
cpg	752.54	J/mol×K	1066.69	Joback Method
cpg	760.49	J/mol×K	1106.11	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U407496&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