Benzamide, 2-amino-3,5-dichloro-

Inchi: InChI=1S/C7H6Cl2N2O/c8-3-1-4(7(11)12)6(10)5(9)2-3/h1-2H,10H2,(H2,11,12)
InchiKey: PRKRQUUATBDWTL-UHFFFAOYSA-N
Formula: C7H6Cl2N2O
SMILES: NC(=O)c1cc(Cl)cc(Cl)c1N
Mol. weight [g/mol]: 205.04
CAS: 36765-01-2

Physical Properties

Property code	Value	Unit	Source
gf	71.70	kJ/mol	Joback Method
hf	-62.17	kJ/mol	Joback Method
hfus	27.15	kJ/mol	Joback Method
hvap	72.24	kJ/mol	Joback Method
log10ws	-2.65		Crippen Method
logp	1.675		Crippen Method
mcvol	131.740	ml/mol	McGowan Method
pc	4438.52	kPa	Joback Method
tb	674.97	K	Joback Method
tc	929.68	K	Joback Method
tf	508.92	K	Joback Method
vc	0.481	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	284.88	J/mol×K	674.97	Joback Method
cpg	292.82	J/mol×K	717.42	Joback Method
cpg	300.11	J/mol×K	759.87	Joback Method
cpg	306.78	J/mol×K	802.32	Joback Method
cpg	312.84	J/mol×K	844.78	Joback Method
cpg	318.34	J/mol×K	887.23	Joback Method
cpg	323.28	J/mol×K	929.68	Joback Method

Sources

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=C36765012&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume