2,5-Dichlorobenzhydrazide

Inchi: InChI=1S/C7H6Cl2N2O/c8-4-1-2-6(9)5(3-4)7(12)11-10/h1-3H,10H2,(H,11,12)
InchiKey: XECBCXNWGBDIMG-UHFFFAOYSA-N
Formula: C7H6Cl2N2O
SMILES: NNC(=O)c1cc(Cl)ccc1Cl
Mol. weight [g/mol]: 205.04
CAS: 67487-35-8

Physical Properties

Property code	Value	Unit	Source
gf	104.27	kJ/mol	Joback Method
hf	-31.02	kJ/mol	Joback Method
hfus	27.44	kJ/mol	Joback Method
hvap	67.37	kJ/mol	Joback Method
log10ws	-3.19		Crippen Method
logp	1.597		Crippen Method
mcvol	131.740	ml/mol	McGowan Method
pc	4271.86	kPa	Joback Method
tb	647.63	K	Joback Method
tc	892.69	K	Joback Method
tf	465.80	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	281.54	J/mol×K	647.63	Joback Method
cpg	290.01	J/mol×K	688.47	Joback Method
cpg	297.79	J/mol×K	729.32	Joback Method
cpg	304.92	J/mol×K	770.16	Joback Method
cpg	311.42	J/mol×K	811.00	Joback Method
cpg	317.33	J/mol×K	851.85	Joback Method
cpg	322.67	J/mol×K	892.69	Joback Method

Sources

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=C67487358&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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