

5-Bromo-2-chlorobenzhydrazide

Inchi:	InChI=1S/C7H6BrClN2O/c8-4-1-2-6(9)5(3-4)7(12)11-10/h1-3H,10H2,(H,11,12)
InchiKey:	WWFCYCURWFOZSY-UHFFFAOYSA-N
Formula:	C7H6BrClN2O
SMILES:	NNC(=O)c1cc(Br)ccc1Cl
Mol. weight [g/mol]:	249.49
CAS:	131634-71-4

Physical Properties

Property code	Value	Unit	Source
gf	130.52	kJ/mol	Joback Method
hf	11.05	kJ/mol	Joback Method
hfus	28.53	kJ/mol	Joback Method
hvap	69.42	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	1.706		Crippen Method
mcvol	137.000	ml/mol	McGowan Method
pc	4931.51	kPa	Joback Method
tb	676.36	K	Joback Method
tc	930.13	K	Joback Method
tf	495.68	K	Joback Method
vc	0.500	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	288.54	J/mol×K	676.36	Joback Method
cpg	296.67	J/mol×K	718.66	Joback Method
cpg	304.09	J/mol×K	760.95	Joback Method
cpg	310.86	J/mol×K	803.25	Joback Method
cpg	317.01	J/mol×K	845.54	Joback Method
cpg	322.61	J/mol×K	887.84	Joback Method
cpg	327.69	J/mol×K	930.13	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=C131634714&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

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