Hydrazine, 1,2-di-(o-bromobenzoyl)-

Inchi: InChI=1S/C14H10Br2N2O2/c15-11-7-3-1-5-9(11)13(19)17-18-14(20)10-6-2-4-8-12(10)16
InchiKey: WYAPRDHCKLQNRU-UHFFFAOYSA-N
Formula: C14H10Br2N2O2
SMILES: O=C(NNC(=O)c1ccccc1Br)c1ccccc1Br
Mol. weight [g/mol]: 398.05
CAS: 50796-71-9

Physical Properties

Property code	Value	Unit	Source
gf	222.14	kJ/mol	Joback Method
hf	52.27	kJ/mol	Joback Method
hfus	43.29	kJ/mol	Joback Method
hvap	91.87	kJ/mol	Joback Method
log10ws	-6.29		Crippen Method
logp	3.286		Crippen Method
mcvol	218.700	ml/mol	McGowan Method
pc	3718.02	kPa	Joback Method
tb	923.44	K	Joback Method
tc	1187.61	K	Joback Method
tf	650.20	K	Joback Method
vc	0.809	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	553.80	J/mol×K	923.44	Joback Method
cpg	562.52	J/mol×K	967.47	Joback Method
cpg	570.42	J/mol×K	1011.50	Joback Method
cpg	577.64	J/mol×K	1055.52	Joback Method
cpg	584.29	J/mol×K	1099.55	Joback Method
cpg	590.48	J/mol×K	1143.58	Joback Method
cpg	596.33	J/mol×K	1187.61	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=C50796719&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