

«alpha»,«beta»-Dibromohydrocinnamic acid

Other names:	2,3-Dibromo-3-phenylpropionic acid 2,3-Dibromohydrocinnamic acid Benzenepropanoic acid, «alpha»,«beta»-dibromo- Hydrocinnamic acid, «alpha»,«beta»-dibromo- 2,3-Dibromo-3-phenylpropanoic acid Propionic acid, 2,3-dibromo-3-phenyl- alpha,beta-Dibromohydrocinnamic acid
Inchi:	InChI=1S/C9H8Br2O2/c10-7(8(11)9(12)13)6-4-2-1-3-5-6/h1-5,7-8H,(H,12,13)
InchiKey:	FXJWTHBNVZNQQP-UHFFFAOYSA-N
Formula:	C9H8Br2O2
SMILES:	O=C(O)C(Br)C(Br)c1ccccc1
Mol. weight [g/mol]:	307.97
CAS:	6286-30-2

Physical Properties

Property code	Value	Unit	Source
gf	-104.67	kJ/mol	Joback Method
hf	-215.27	kJ/mol	Joback Method
hfus	22.32	kJ/mol	Joback Method
hvap	73.42	kJ/mol	Joback Method
log10ws	-3.23		Crippen Method
logp	2.971		Crippen Method
mcvol	156.350	ml/mol	McGowan Method
pc	4809.16	kPa	Joback Method
tb	709.49	K	Joback Method
tc	944.19	K	Joback Method
tf	417.96	K	Joback Method
vc	0.569	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	343.09	J/molxK	709.49	Joback Method
cpg	379.06	J/molxK	905.08	Joback Method

cpg	373.02	J/molxK	865.96	Joback Method
cpg	366.47	J/molxK	826.84	Joback Method
cpg	359.34	J/molxK	787.72	Joback Method
cpg	351.57	J/molxK	748.61	Joback Method
cpg	384.66	J/molxK	944.19	Joback Method
dvisc	0.0000544	Paxs	709.49	Joback Method
dvisc	0.0000806	Paxs	660.90	Joback Method
dvisc	0.0001273	Paxs	612.31	Joback Method
dvisc	0.0002173	Paxs	563.73	Joback Method
dvisc	0.0004106	Paxs	515.14	Joback Method
dvisc	0.0008856	Paxs	466.55	Joback Method
dvisc	0.0022841	Paxs	417.96	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=C6286302&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
mccvol:	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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