

«alpha»-Bromophenylacetic acid

Other names:	dl-«alpha»-Bromophenylacetic acid Benzeneacetic acid, «alpha»-bromo- bromo(phenyl)acetic acid
Inchi:	InChI=1S/C8H7BrO2/c9-7(8(10)11)6-4-2-1-3-5-6/h1-5,7H,(H,10,11)
InchiKey:	WAKFRZBXTKUFIW-UHFFFAOYSA-N
Formula:	C8H7BrO2
SMILES:	O=C(O)C(Br)c1ccccc1
Mol. weight [g/mol]:	215.04
CAS:	4870-65-9

Physical Properties

Property code	Value	Unit	Source
gf	-124.97	kJ/mol	Joback Method
hf	-215.68	kJ/mol	Joback Method
hfus	17.97	kJ/mol	Joback Method
hvap	65.15	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.207		Crippen Method
mcvol	124.760	ml/mol	McGowan Method
pc	4938.44	kPa	Joback Method
tb	620.89	K	Joback Method
tc	844.34	K	Joback Method
tf	361.89	K	Joback Method
vc	0.457	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	267.76	J/molxK	620.89	Joback Method
cpg	305.19	J/molxK	807.10	Joback Method
cpg	298.89	J/molxK	769.86	Joback Method
cpg	292.04	J/molxK	732.62	Joback Method
cpg	284.60	J/molxK	695.37	Joback Method
cpg	276.52	J/molxK	658.13	Joback Method

cpg	311.00	J/mol×K	844.34	Joback Method
dvisc	0.0000976	Paxs	620.89	Joback Method
dvisc	0.0001467	Paxs	577.72	Joback Method
dvisc	0.0002355	Paxs	534.56	Joback Method
dvisc	0.0004108	Paxs	491.39	Joback Method
dvisc	0.0007976	Paxs	448.22	Joback Method
dvisc	0.0017838	Paxs	405.06	Joback Method
dvisc	0.0048342	Paxs	361.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4870659&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
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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