Benzene, 1,3-dibromo-5-(bromomethyl)-

Other names: 3,5-Dibromobenzyl bromide
Inchi: InChI=1S/C7H5Br3/c8-4-5-1-6(9)3-7(10)2-5/h1-3H,4H2
InchiKey: PWTFRUXTAFBWBW-UHFFFAOYSA-N
Formula: C7H5Br3
SMILES: BrCc1cc(Br)cc(Br)c1
Mol. weight [g/mol]: 328.83
CAS: 56908-88-4

Physical Properties

Property code	Value	Unit	Source
gf	144.17	kJ/mol	Joback Method
hf	104.77	kJ/mol	Joback Method
hfus	23.00	kJ/mol	Joback Method
hvap	54.08	kJ/mol	Joback Method
log10ws	-5.11		Crippen Method
logp	4.106		Crippen Method
mcvol	138.230	ml/mol	McGowan Method
pc	5235.81	kPa	Joback Method
tb	594.68	K	Joback Method
tc	861.95	K	Joback Method
tf	399.51	K	Joback Method
vc	0.505	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	229.92	J/mol×K	594.68	Joback Method
cpg	237.90	J/mol×K	639.22	Joback Method
cpg	245.16	J/mol×K	683.77	Joback Method
cpg	251.79	J/mol×K	728.31	Joback Method
cpg	257.86	J/mol×K	772.86	Joback Method
cpg	263.45	J/mol×K	817.40	Joback Method
cpg	268.64	J/mol×K	861.95	Joback Method
dvisc	0.0012345	Pa×s	399.51	Joback Method

dvisc	0.0008869	Pa×s	432.04	Joback Method
dvisc	0.0006674	Pa×s	464.57	Joback Method
dvisc	0.0005212	Pa×s	497.09	Joback Method
dvisc	0.0004196	Pa×s	529.62	Joback Method
dvisc	0.0003464	Pa×s	562.15	Joback Method
dvisc	0.0002920	Pa×s	594.68	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=C56908884&Units=SI

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