Benzene, (dibromomethyl)-

Other names:	Benzal bromide
	Benzal dibromide
	Benzylidene bromide
	Benzylidene dibromide
	Dibromomethylbenzene
	«alpha», «alpha»-Dibromophenylmethane
	«alpha»,«alpha»-Dibromotoluene
	Toluene, «alpha»,«alpha»-dibromo-
	alpha,alpha-dibromotoluene
Inchi:	InChI=1S/C7H6Br2/c8-7(9)6-4-2-1-3-5-6/h1-5,7H
InchiKey:	VCJZTATVUDMNLU-UHFFFAOYSA-N
Formula:	C7H6Br2
SMILES:	BrC(Br)c1ccccc1
Mol. weight [g/mol]:	249.93
CAS:	618-31-5

Physical Properties

Property code	Value	Unit	Source
gf	146.67	kJ/mol	Joback Method
hf	96.10	kJ/mol	Joback Method
hfus	14.97	kJ/mol	Joback Method
hvap	45.93	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.475		Crippen Method
mcvol	120.730	ml/mol	McGowan Method
pc	5008.59	kPa	Joback Method
tb	518.12	K	Joback Method
tc	774.24	K	Joback Method
tf	299.67	K	Joback Method
vc	0.438	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	205.19	J/mol×K	518.12	Joback Method
cpg	215.44	J/mol×K	560.81	Joback Method
cpg	224.76	J/mol×K	603.49	Joback Method
cpg	233.23	J/mol×K	646.18	Joback Method
cpg	240.91	J/mol×K	688.87	Joback Method
cpg	247.90	J/mol×K	731.55	Joback Method
cpg	254.26	J/mol×K	774.24	Joback Method
dvisc	0.0030457	Pa×s	299.67	Joback Method
dvisc	0.0017016	Pa×s	336.08	Joback Method
dvisc	0.0010653	Pa×s	372.49	Joback Method
dvisc	0.0007249	Pa×s	408.89	Joback Method
dvisc	0.0005253	Pa×s	445.30	Joback Method
dvisc	0.0003997	Pa×s	481.71	Joback Method
dvisc	0.0003160	Pa×s	518.12	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	429.20	K	3.10	NIST Webbook

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=C618315&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
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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume