Benzenemethanol, 4-bromo-«alpha»-methyl-

Other names:	Benzyl alcohol, p-bromo-«alpha»-methyl-
	4-Bromo-«alpha»-methylbenzenemethanol
	p-Bromo-«alpha»-methylbenzyl alcohol
	4-Bromophenylmethylcarbinol
	p-Bromophenyl methyl carbinol
	1-(4-Bromophenyl)ethanol
	4-Bromo-«alpha»-methylbenzylalcohol
	4-bromo-alpha-methylbenzyl alcohol
Inchi:	InChI=1S/C8H9BrO/c1-6(10)7-2-4-8(9)5-3-7/h2-6,10H,1H3
InchiKey:	XTDTYSBVMBQIBT-UHFFFAOYSA-N
Formula:	C8H9BrO
SMILES:	CC(O)c1ccc(Br)cc1
Mol. weight [g/mol]:	201.06
CAS:	5391-88-8

Physical Properties

Property code	Value	Unit	Source
gf	-5.68	kJ/mol	Joback Method
hf	-114.57	kJ/mol	Joback Method
hfus	15.98	kJ/mol	Joback Method
hvap	59.07	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	2.502		Crippen Method
mcvol	123.190	ml/mol	McGowan Method
pc	4438.52	kPa	Joback Method
rinpol	1314.70		NIST Webbook
tb	572.00	K	Joback Method
tc	789.10	K	Joback Method
tf	324.48	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	256.95	J/mol×K	572.00	Joback Method
cpg	266.72	J/mol×K	608.18	Joback Method
cpg	275.85	J/mol×K	644.37	Joback Method
cpg	284.37	J/mol×K	680.55	Joback Method
cpg	292.31	J/mol×K	716.73	Joback Method
cpg	299.71	J/mol×K	752.92	Joback Method
cpg	306.62	J/mol×K	789.10	Joback Method
dvisc	0.0067893	Pa×s	324.48	Joback Method
dvisc	0.0023207	Pa×s	365.73	Joback Method
dvisc	0.0009861	Pa×s	406.99	Joback Method
dvisc	0.0004905	Pa×s	448.24	Joback Method
dvisc	0.0002745	Pa×s	489.49	Joback Method
dvisc	0.0001681	Pa×s	530.75	Joback Method
dvisc	0.0001105	Pa×s	572.00	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	393.20	K	0.90	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=C5391888&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume