Benzenemethanol, 4-bromo-

Other names: Benzyl alcohol, p-bromo-
p-Bromobenzyl alcohol
4-Bromobenzyl alcohol
Inchi: InChI=1S/C7H7BrO/c8-7-3-1-6(5-9)2-4-7/h1-4,9H,5H2
InchiKey: VEDDBHYQWFOITD-UHFFFAOYSA-N
Formula: C7H7BrO
SMILES: OCc1ccc(Br)cc1
Mol. weight [g/mol]: 187.03
CAS: 873-75-6

Physical Properties

Property code	Value	Unit	Source
gf	-11.66	kJ/mol	Joback Method
hf	-88.65	kJ/mol	Joback Method
hfus	16.91	kJ/mol	Joback Method
hvap	57.23	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	1.941		Crippen Method
mcvol	109.100	ml/mol	McGowan Method
pc	5008.59	kPa	Joback Method
tb	549.56	K	Joback Method
tc	765.72	K	Joback Method
tf	328.21	K	Joback Method
vc	0.401	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.18	J/mol×K	549.56	Joback Method
cpg	250.21	J/mol×K	729.69	Joback Method
cpg	243.80	J/mol×K	693.66	Joback Method
cpg	236.93	J/mol×K	657.64	Joback Method
cpg	229.56	J/mol×K	621.61	Joback Method
cpg	221.65	J/mol×K	585.59	Joback Method

cpg	256.18	J/mol×K	765.72	Joback Method
dvisc	0.0001406	Pa×s	549.56	Joback Method
dvisc	0.0002070	Pa×s	512.67	Joback Method
dvisc	0.0003238	Pa×s	475.78	Joback Method
dvisc	0.0005458	Pa×s	438.88	Joback Method
dvisc	0.0010127	Pa×s	401.99	Joback Method
dvisc	0.0021291	Pa×s	365.10	Joback Method
dvisc	0.0052897	Pa×s	328.21	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C873756&Units=SI
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

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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