Benzenemethanol, «alpha»-(bromomethyl)-

Other names:	Benzyl alcohol, «alpha»-(bromomethyl)-
	Styrene «beta»-bromohydrin
	Styrene bromohydrin
	2-Bromo-1-phenylethanol
	«alpha»-(bromomethyl)benzyl alcohol
Inchi:	InChI=1S/C8H9BrO/c9-6-8(10)7-4-2-1-3-5-7/h1-5,8,10H,6H2
InchiKey:	DAHHEUQBMDBSLO-UHFFFAOYSA-N
Formula:	C8H9BrO
SMILES:	OC(CBr)c1ccccc1
Mol. weight [g/mol]:	201.06
CAS:	2425-28-7

Physical Properties

Property code	Value	Unit	Source
gf	3.95	kJ/mol	Joback Method
hf	-103.10	kJ/mol	Joback Method
hfus	16.37	kJ/mol	Joback Method
hvap	58.40	kJ/mol	Joback Method
log10ws	-2.43		Crippen Method
logp	2.115		Crippen Method
mcvol	123.190	ml/mol	McGowan Method
pc	4528.58	kPa	Joback Method
tb	567.02	K	Joback Method
tc	783.08	K	Joback Method
tf	311.96	K	Joback Method
vc	0.451	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	257.96	J/mol×K	567.02	Joback Method
cpg	268.02	J/mol×K	603.03	Joback Method
cpg	277.38	J/mol×K	639.04	Joback Method
cpg	286.07	J/mol×K	675.05	Joback Method

cpg	294.15	J/mol×K	711.06	Joback Method
cpg	301.65	J/mol×K	747.07	Joback Method
cpg	308.63	J/mol×K	783.08	Joback Method
dvisc	0.0106720	Pa×s	311.96	Joback Method
dvisc	0.0031924	Pa×s	354.47	Joback Method
dvisc	0.0012366	Pa×s	396.98	Joback Method
dvisc	0.0005755	Pa×s	439.49	Joback Method
dvisc	0.0003065	Pa×s	482.00	Joback Method
dvisc	0.0001808	Pa×s	524.51	Joback Method
dvisc	0.0001154	Pa×s	567.02	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=C2425287&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