

3-Bromobenzyl alcohol

Other names:	m-Bromobenzyl alcohol Benzenemethanol, 3-bromo-
Inchi:	InChI=1S/C7H7BrO/c8-7-3-1-2-6(4-7)5-9/h1-4,9H,5H2
InchiKey:	FSWNRRSWFBXQCL-UHFFFAOYSA-N
Formula:	C7H7BrO
SMILES:	OCc1cccc(Br)c1
Mol. weight [g/mol]:	187.03
CAS:	15852-73-0

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	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	213.18	J/mol×K	549.56	Joback Method
cpg	221.65	J/mol×K	585.59	Joback Method
cpg	229.56	J/mol×K	621.61	Joback Method
cpg	236.93	J/mol×K	657.64	Joback Method
cpg	243.80	J/mol×K	693.66	Joback Method
cpg	250.21	J/mol×K	729.69	Joback Method
cpg	256.18	J/mol×K	765.72	Joback Method

dvisc	0.0052897	Paxs	328.21	Joback Method
dvisc	0.0021291	Paxs	365.10	Joback Method
dvisc	0.0010127	Paxs	401.99	Joback Method
dvisc	0.0005458	Paxs	438.88	Joback Method
dvisc	0.0003238	Paxs	475.78	Joback Method
dvisc	0.0002070	Paxs	512.67	Joback Method
dvisc	0.0001406	Paxs	549.56	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	438.20	K	2.10	NIST Webbook
tbrp	438.00	K	2.10	NIST Webbook
tbrp	525.50 ± 0.50	K	94.80	NIST Webbook
tbrp	514.00 ± 16.00	K	98.40	NIST Webbook
tbrp	364.30 ± 0.70	K	0.09	NIST Webbook

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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=C15852730&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/56-961-3/3-Bromobenzyl-alcohol.pdf>

Generated by Cheméo on 2024-04-25 18:08:05.64528514 +0000 UTC m=+16357734.565862455.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.