

2-Bromo-1-chloro pentane

Inchi:	InChI=1S/C5H10BrCl/c1-2-3-5(6)4-7/h5H,2-4H2,1H3
InchiKey:	XUGUMNKCVFQCNK-UHFFFAOYSA-N
Formula:	C5H10BrCl
SMILES:	CCCC(Br)CCl
Mol. weight [g/mol]:	185.49
CAS:	108200-26-6

Physical Properties

Property code	Value	Unit	Source
gf	-8.83	kJ/mol	Joback Method
hf	-141.22	kJ/mol	Joback Method
hfus	14.66	kJ/mol	Joback Method
hvap	37.16	kJ/mol	Joback Method
log10ws	-2.61		Crippen Method
logp	2.789		Crippen Method
mcvol	111.050	ml/mol	McGowan Method
pc	3637.73	kPa	Joback Method
tb	416.95	K	Joback Method
tc	614.25	K	Joback Method
tf	220.83	K	Joback Method
vc	0.420	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	185.53	J/molxK	416.95	Joback Method
cpg	194.86	J/molxK	449.83	Joback Method
cpg	203.70	J/molxK	482.72	Joback Method
cpg	212.09	J/molxK	515.60	Joback Method
cpg	220.04	J/molxK	548.48	Joback Method
cpg	227.57	J/molxK	581.37	Joback Method
cpg	234.70	J/molxK	614.25	Joback Method
dvisc	0.0055966	Paxs	220.83	Joback Method
dvisc	0.0026582	Paxs	253.52	Joback Method

dvisc	0.0014966	Paxs	286.20	Joback Method
dvisc	0.0009479	Paxs	318.89	Joback Method
dvisc	0.0006536	Paxs	351.58	Joback Method
dvisc	0.0004801	Paxs	384.26	Joback Method
dvisc	0.0003701	Paxs	416.95	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C108200266&Units=SI
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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/80-885-1/2-Bromo-1-chloro-pentane.pdf>

Generated by Cheméo on 2024-04-19 14:18:02.93122954 +0000 UTC m=+15825531.851806853.

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