

Benzene, (1-chloropropyl)

Inchi:	InChI=1S/C9H11Cl/c1-2-9(10)8-6-4-3-5-7-8/h3-7,9H,2H2,1H3
InchiKey:	MZMVVHAHSRJOEO-UHFFFAOYSA-N
Formula:	C9H11Cl
SMILES:	CCC(Cl)c1ccccc1
Mol. weight [g/mol]:	154.64

Physical Properties

Property code	Value	Unit	Source
gf	122.94	kJ/mol	Joback Method
hf	-13.58	kJ/mol	Joback Method
hfus	13.78	kJ/mol	Joback Method
hvap	41.90	kJ/mol	Joback Method
log10ws	-3.30		Crippen Method
logp	3.377		Crippen Method
mvol	126.150	ml/mol	McGowan Method
pc	3156.17	kPa	Joback Method
rinpol	1133.00		NIST Webbook
rinpol	1131.00		NIST Webbook
tb	468.99	K	Joback Method
tc	687.77	K	Joback Method
tf	232.53	K	Joback Method
vc	0.474	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.63	J/molxK	468.99	Joback Method
cpg	256.41	J/molxK	505.45	Joback Method
cpg	269.33	J/molxK	541.92	Joback Method
cpg	281.43	J/molxK	578.38	Joback Method
cpg	292.74	J/molxK	614.85	Joback Method
cpg	303.30	J/molxK	651.31	Joback Method
cpg	313.15	J/molxK	687.77	Joback Method
dvisc	0.0050859	Paxs	232.53	Joback Method

dvisc	0.0021248	Paxs	271.94	Joback Method
dvisc	0.0011072	Paxs	311.35	Joback Method
dvisc	0.0006679	Paxs	350.76	Joback Method
dvisc	0.0004463	Paxs	390.17	Joback Method
dvisc	0.0003211	Paxs	429.58	Joback Method
dvisc	0.0002441	Paxs	468.99	Joback Method

Sources

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=R129632&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/14-067-2/Benzene-1-chloropropyl.pdf>

Generated by Cheméo on 2024-04-24 14:34:55.684883139 +0000 UTC m=+16258544.605460459.

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