

3-CHLORO-2-HYDROXYBENZOIC ACID

Other names:	Benzoic acid, 3-chloro-2-hydroxy- Salicylic acid, 3-chloro-
Inchi:	InChI=1S/C7H5ClO3/c8-5-3-1-2-4(6(5)9)7(10)11/h1-3,9H,(H,10,11)
InchiKey:	PPINMMULCRBDOS-UHFFFAOYSA-N
Formula:	C7H5ClO3
SMILES:	O=C(O)c1cccc(Cl)c1O
Mol. weight [g/mol]:	172.57

Physical Properties

Property code	Value	Unit	Source
hf	-508.23	kJ/mol	Cheméo Relay (1.0)
hfus	23.21	kJ/mol	Joback Method
hvap	90.25	kJ/mol	Cheméo Relay (1.0)
ie	8.78	eV	Cheméo Relay (1.0)
log10ws	-2.27		Cheméo Relay (1.0)
logp	1.744		Crippen Method
mcvol	111.280	ml/mol	McGowan Method
rinpol	1548.00		NIST Webbook
rinpol	1548.00		NIST Webbook
tb	525.16	K	Cheméo Relay (1.0)
tc	854.81	K	Cheméo Relay (1.0)
tf	430.72	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	249.69	J/mol×K	655.32	Joback Method
cpg	256.05	J/mol×K	692.75	Joback Method
cpg	261.95	J/mol×K	730.18	Joback Method
cpg	267.47	J/mol×K	767.61	Joback Method
cpg	272.67	J/mol×K	805.04	Joback Method
cpg	277.63	J/mol×K	842.47	Joback Method
cpg	282.40	J/mol×K	879.90	Joback Method
dvisc	0.0004187	Pa×s	459.98	Joback Method

dvisc	0.0001872	Pa×s	492.54	Joback Method
dvisc	0.0000925	Pa×s	525.09	Joback Method
dvisc	0.0000496	Pa×s	557.65	Joback Method
dvisc	0.0000285	Pa×s	590.21	Joback Method
dvisc	0.0000174	Pa×s	622.76	Joback Method
dvisc	0.0000111	Pa×s	655.32	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1829329&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/53-230-7/3-CHLORO-2-HYDROXYBENZOIC-ACID.pdf>

Generated by Cheméo on 2026-07-21 18:27:45.288847774 +0000 UTC m=+169561.130733166.

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