

DL-P-CHLORO-ALPHA-HYDROXYPHENYLACETIC ACID

Other names: 4-Chloromandelic acid
Benzeneacetic acid, 4-chloro-«alpha»-hydroxy-
Mandelic acid, p-chloro-
Para-chloromandelic acid
4-Chloro-«alpha»-hydroxybenzeneethanoic acid
NSC 31400
DL-4-Chloromandelic acid
(dl) p-chloromandelic acid

Inchi: InChI=1S/C8H7ClO3/c9-6-3-1-5(2-4-6)7(10)8(11)12/h1-4,7,10H,(H,11,12)
InchiKey: BWSFWXSSALIZAU-UHFFFAOYSA-N
Formula: C8H7ClO3
SMILES: O=C(O)C(O)c1ccc(Cl)cc1
Mol. weight [g/mol]: 186.59

Physical Properties

Property code	Value	Unit	Source
hf	-506.00	kJ/mol	Cheméo Relay (1.0)
hfus	20.58	kJ/mol	Joback Method
ie	9.01	eV	Cheméo Relay (1.0)
log10ws	-0.89		Cheméo Relay (1.0)
logp	1.458		Crippen Method
mcvol	125.370	ml/mol	McGowan Method
tb	546.79	K	Cheméo Relay (1.0)
tf	412.58	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.87	J/mol×K	689.32	Joback Method
cpg	303.93	J/mol×K	722.95	Joback Method
cpg	310.51	J/mol×K	756.59	Joback Method
cpg	316.62	J/mol×K	790.22	Joback Method
cpg	322.28	J/mol×K	823.85	Joback Method
cpg	327.53	J/mol×K	857.49	Joback Method

cpg	332.38	J/mol×K	891.12	Joback Method
dvisc	0.0028509	Pa×s	405.35	Joback Method
dvisc	0.0007972	Pa×s	452.68	Joback Method
dvisc	0.0002838	Pa×s	500.01	Joback Method
dvisc	0.0001207	Pa×s	547.34	Joback Method
dvisc	0.0000589	Pa×s	594.66	Joback Method
dvisc	0.0000319	Pa×s	641.99	Joback Method
dvisc	0.0000188	Pa×s	689.32	Joback Method
hfust	27.20	kJ/mol	394.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C492864&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
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.cheméo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.cheméo.com/cid/97-055-4/DL-P-CHLORO-ALPHA-HYDROXYPHENYLACETIC-ACID.pdf>

Generated by Cheméo on 2026-07-22 14:59:01.397422715 +0000 UTC m=+243437.239308096.

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