

CHLOROMETHYL 4-CHLORODECANOATE

Other names:	4-Chlorododecanoic acid, chloromethyl ester
Inchi:	InChI=1S/C13H24Cl2O2/c1-2-3-4-5-6-7-8-12(15)9-10-13(16)17-11-14/h12H,2-11H2,1H3
InchiKey:	ZXYVRYZSZYAFKI-UHFFFAOYSA-N
Formula:	C13H24Cl2O2
SMILES:	CCCCCCCCC(Cl)CCC(=O)OCCl
Mol. weight [g/mol]:	283.24

Physical Properties

Property code	Value	Unit	Source
hf	-680.44	kJ/mol	Cheméo Relay (1.0)
hfus	37.08	kJ/mol	Joback Method
hvap	81.68	kJ/mol	Cheméo Relay (1.0)
log10ws	-5.22		Cheméo Relay (1.0)
logp	4.864		Crippen Method
mcvol	225.950	ml/mol	McGowan Method
pc	1618.07	kPa	Joback Method
rinpol	1863.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1850.00		NIST Webbook
rinpol	1888.00		NIST Webbook
rinpol	1859.00		NIST Webbook
ripol	2448.00		NIST Webbook
ripol	2444.00		NIST Webbook
ripol	2424.00		NIST Webbook
tb	573.46	K	Cheméo Relay (1.0)
tc	764.53	K	Cheméo Relay (1.0)
tf	263.03	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	579.55	J/mol×K	647.55	Joback Method
cpg	594.71	J/mol×K	677.68	Joback Method
cpg	609.14	J/mol×K	707.81	Joback Method

cpg	622.86	J/mol×K	737.94	Joback Method
cpg	635.88	J/mol×K	768.06	Joback Method
cpg	648.22	J/mol×K	798.19	Joback Method
cpg	659.91	J/mol×K	828.32	Joback Method
dvisc	0.0025326	Pa×s	353.27	Joback Method
dvisc	0.0011518	Pa×s	402.32	Joback Method
dvisc	0.0006217	Pa×s	451.36	Joback Method
dvisc	0.0003786	Pa×s	500.41	Joback Method
dvisc	0.0002520	Pa×s	549.46	Joback Method
dvisc	0.0001792	Pa×s	598.50	Joback Method
dvisc	0.0001343	Pa×s	647.55	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C80419007&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.chemeo.com/doc/models/crippen_log10ws

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
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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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