

ACETIC ACID, CYCLOHEXYLIDENE-, ETHYL ESTER

Other names:	«delta»1,«alpha»-Cyclohexaneacetic acid, ethyl ester Ethyl cyclohexylideneacetate Ethoxycarbonylmethylenecyclohexane
Inchi:	InChI=1S/C10H16O2/c1-2-12-10(11)8-9-6-4-3-5-7-9/h8H,2-7H2,1H3
InchiKey:	MCWDXHYYYNGYGK-UHFFFAOYSA-N
Formula:	C10H16O2
SMILES:	CCOC(=O)C=C1CCCCC1
Mol. weight [g/mol]:	168.24

Physical Properties

Property code	Value	Unit	Source
af	0.4351		Cheméo Relay (1.0)
hf	-432.46	kJ/mol	Cheméo Relay (1.0)
hfus	15.53	kJ/mol	Joback Method
hvap	62.63	kJ/mol	Cheméo Relay (1.0)
ie	9.18	eV	Cheméo Relay (1.0)
log10ws	-2.98		Cheméo Relay (1.0)
logp	2.440		Crippen Method
mcvol	144.040	ml/mol	McGowan Method
pc	2875.03	kPa	Joback Method
tb	495.02	K	Cheméo Relay (1.0)
tc	696.28	K	Cheméo Relay (1.0)
tf	258.06	K	Cheméo Relay (1.0)
vc	0.505	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	336.78	J/mol×K	535.35	Joback Method
cpg	353.12	J/mol×K	570.74	Joback Method
cpg	368.57	J/mol×K	606.13	Joback Method
cpg	383.15	J/mol×K	641.52	Joback Method
cpg	396.90	J/mol×K	676.91	Joback Method
cpg	409.82	J/mol×K	712.30	Joback Method

cpg	421.95	J/mol×K	747.70	Joback Method
dvisc	0.0033197	Pa×s	296.60	Joback Method
dvisc	0.0015677	Pa×s	336.39	Joback Method
dvisc	0.0008677	Pa×s	376.18	Joback Method
dvisc	0.0005378	Pa×s	415.98	Joback Method
dvisc	0.0003623	Pa×s	455.77	Joback Method
dvisc	0.0002601	Pa×s	495.56	Joback Method
dvisc	0.0001962	Pa×s	535.35	Joback Method

Sources

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C1552927&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

Cheméo Relay (1.0):

Legend

af:	Acentric Factor
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
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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