

5-ETHYLCYCLOPENT-1-ENECARBOXALDEHYDE

Other names:	1-Formyl-5-ethylcyclopentene 5-Ethyl-1-formylcyclopentene 5-Ethylcyclopentene-1-carbaldehyde Cyclopentene-1-carboxaldehyde, 5-ethyl 5-Ethyl-1-cyclopentene-1-carbaldehyde (5-Ethylcyclopent-1-enyl)-methanal Cyclopentene-1-carboxaldehyde, 5-methyl 5-Ethyl-1-cyclopentene-1-carboxaldehyde
Inchi:	InChI=1S/C8H12O/c1-2-7-4-3-5-8(7)6-9/h5-7H,2-4H2,1H3
InchiKey:	BXRHTYIYAZHIHF-UHFFFAOYSA-N
Formula:	C8H12O
SMILES:	CCC1CCC=C1C=O
Mol. weight [g/mol]:	124.18

Physical Properties

Property code	Value	Unit	Source
hfus	13.53	kJ/mol	Joback Method
logp	1.932		Crippen Method
mcvol	109.990	ml/mol	McGowan Method
rinpol	1040.00		NIST Webbook
rinpol	1040.00		NIST Webbook
rinpol	1026.00		NIST Webbook
rinpol	1035.00		NIST Webbook
rinpol	1013.00		NIST Webbook
rinpol	1013.00		NIST Webbook
rinpol	1010.00		NIST Webbook
rinpol	1038.00		NIST Webbook
rinpol	1053.00		NIST Webbook
rinpol	1047.00		NIST Webbook
rinpol	1039.00		NIST Webbook
ripol	1428.00		NIST Webbook
ripol	1428.00		NIST Webbook
ripol	1416.00		NIST Webbook
ripol	1404.00		NIST Webbook
ripol	1399.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.00	J/mol×K	450.52	Joback Method
cpg	239.46	J/mol×K	484.34	Joback Method
cpg	252.22	J/mol×K	518.17	Joback Method
cpg	264.30	J/mol×K	551.99	Joback Method
cpg	275.74	J/mol×K	585.82	Joback Method
cpg	286.54	J/mol×K	619.64	Joback Method
cpg	296.74	J/mol×K	653.47	Joback Method
dvisc	0.0024771	Pa×s	246.10	Joback Method
dvisc	0.0014963	Pa×s	280.17	Joback Method
dvisc	0.0010082	Pa×s	314.24	Joback Method
dvisc	0.0007339	Pa×s	348.31	Joback Method
dvisc	0.0005653	Pa×s	382.38	Joback Method
dvisc	0.0004545	Pa×s	416.45	Joback Method
dvisc	0.0003776	Pa×s	450.52	Joback Method

Sources

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):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C36431604&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
rinpol:	Non-polar retention indices

ripol: Polar retention indices

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