

3-Hexenoic acid, ethyl ester, (E)-

Other names:	(E)-Ethyl-3-hexenoate Ethyl (3E)-3-hexenoate Ethyl (E)-3-hexenoate Ethyl 3-hexenoate Ethyl 3-hexenoate, trans Ethyl trans-3-hexenoate ethyl (E)-hex-3-enoate ethyl trans-hex-3-enoate
Inchi:	InChI=1S/C8H14O2/c1-3-5-6-7-8(9)10-4-2/h5-6H,3-4,7H2,1-2H3/b6-5+
InchiKey:	VTSFIPHRNAESED-AATRIKPKSA-N
Formula:	C8H14O2
SMILES:	CCC=CCC(=O)OCC
Mol. weight [g/mol]:	142.20
CAS:	26553-46-8

Physical Properties

Property code	Value	Unit	Source
gf	-137.22	kJ/mol	Joback Method
hf	-336.03	kJ/mol	Joback Method
hfus	19.46	kJ/mol	Joback Method
hvap	42.52	kJ/mol	Joback Method
log10ws	-1.89		Crippen Method
logp	1.906		Crippen Method
mcvol	126.720	ml/mol	McGowan Method
pc	2805.41	kPa	Joback Method
rinpol	1012.00		NIST Webbook
rinpol	997.00		NIST Webbook
rinpol	981.00		NIST Webbook
rinpol	1008.00		NIST Webbook
rinpol	1005.00		NIST Webbook
rinpol	987.00		NIST Webbook
rinpol	1006.00		NIST Webbook
rinpol	981.00		NIST Webbook
rinpol	1006.00		NIST Webbook
rinpol	1006.00		NIST Webbook
rinpol	1007.00		NIST Webbook
ripol	1284.00		NIST Webbook

ripol	1294.00		NIST Webbook
ripol	1270.00		NIST Webbook
ripol	1303.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1301.00		NIST Webbook
ripol	1269.00		NIST Webbook
ripol	1295.00		NIST Webbook
ripol	1292.00		NIST Webbook
ripol	1283.00		NIST Webbook
ripol	1289.00		NIST Webbook
ripol	1283.00		NIST Webbook
ripol	1289.00		NIST Webbook
ripol	1298.00		NIST Webbook
ripol	1270.00		NIST Webbook
ripol	1304.00		NIST Webbook
ripol	1287.00		NIST Webbook
ripol	1292.00		NIST Webbook
ripol	1294.00		NIST Webbook
ripol	1269.00		NIST Webbook
ripol	1291.00		NIST Webbook
ripol	1286.00		NIST Webbook
tb	462.89	K	Joback Method
tc	646.21	K	Joback Method
tf	247.00	K	Joback Method
vc	0.487	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	263.30	J/mol×K	462.89	Joback Method
cpg	275.19	J/mol×K	493.44	Joback Method
cpg	286.60	J/mol×K	524.00	Joback Method
cpg	297.52	J/mol×K	554.55	Joback Method
cpg	307.96	J/mol×K	585.10	Joback Method
cpg	317.95	J/mol×K	615.66	Joback Method
cpg	327.49	J/mol×K	646.21	Joback Method
dvisc	0.0030324	Pa×s	247.00	Joback Method
dvisc	0.0014687	Pa×s	282.98	Joback Method
dvisc	0.0008378	Pa×s	318.96	Joback Method
dvisc	0.0005355	Pa×s	354.94	Joback Method
dvisc	0.0003717	Pa×s	390.93	Joback Method

dvisc	0.0002744	Pa×s	426.91	Joback Method
dvisc	0.0002123	Pa×s	462.89	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C26553468&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Development of a Predictive Equation of State for CO ₂ + Ethyl Ester Mixtures Based on Critical Points Measurements:	https://www.doi.org/10.1021/je5002494
McGowan Method:	https://en.wikipedia.org/wiki/Joback_method
	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
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
vc:	Critical Volume

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