

2-NONENOIC ACID, ETHYL ESTER

Other names:	Ethyl 2-nonenoate ethyl non-2-enoate
Inchi:	InChI=1S/C11H20O2/c1-3-5-6-7-8-9-10-11(12)13-4-2/h9-10H,3-8H2,1-2H3/b10-9+
InchiKey:	ZCSDUGXKKBIICL-MDZDMXLPSA-N
Formula:	C11H20O2
SMILES:	CCCCC/C=C/C(=O)OCC
Mol. weight [g/mol]:	184.28

Physical Properties

Property code	Value	Unit	Source
af	0.5880		Cheméo Relay (1.0)
gf	-111.96	kJ/mol	Joback Method
hf	-482.43	kJ/mol	Cheméo Relay (1.0)
hfus	27.24	kJ/mol	Joback Method
hvap	63.67	kJ/mol	Cheméo Relay (1.0)
ie	9.55	eV	Cheméo Relay (1.0)
log10ws	-4.28		Cheméo Relay (1.0)
logp	3.076		Crippen Method
mcvol	168.990	ml/mol	McGowan Method
pc	2111.94	kPa	Joback Method
tb	487.27	K	Cheméo Relay (1.0)
tc	675.64	K	Cheméo Relay (1.0)
tf	226.57	K	Cheméo Relay (1.0)
vc	0.628	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	397.35	J/mol×K	531.53	Joback Method
cpg	411.96	J/mol×K	561.21	Joback Method
cpg	425.95	J/mol×K	590.89	Joback Method
cpg	439.33	J/mol×K	620.57	Joback Method
cpg	452.12	J/mol×K	650.25	Joback Method
cpg	464.33	J/mol×K	679.93	Joback Method

cpg	475.98	J/mol×K	709.61	Joback Method
dvisc	0.0029775	Pa×s	280.81	Joback Method
dvisc	0.0013650	Pa×s	322.60	Joback Method
dvisc	0.0007484	Pa×s	364.38	Joback Method
dvisc	0.0004643	Pa×s	406.17	Joback Method
dvisc	0.0003149	Pa×s	447.96	Joback Method
dvisc	0.0002282	Pa×s	489.74	Joback Method
dvisc	0.0001740	Pa×s	531.53	Joback Method

Sources

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=C17463013&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

Legend

af:	Acentric Factor
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
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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