

Ethanol, 2-(nonyloxy)-

Other names:	2-(Nonyloxy)ethanol
Inchi:	InChI=1S/C11H24O2/c1-2-3-4-5-6-7-8-10-13-11-9-12/h12H,2-11H2,1H3
InchiKey:	IVVIWWSNOHDUFQ-UHFFFAOYSA-N
Formula:	C11H24O2
SMILES:	CCCCCCCCCOCCO
Mol. weight [g/mol]:	188.31
CAS:	18913-04-7

Physical Properties

Property code	Value	Unit	Source
gf	-200.08	kJ/mol	Joback Method
hf	-554.82	kJ/mol	Joback Method
hfus	29.52	kJ/mol	Joback Method
hvap	59.17	kJ/mol	Joback Method
log10ws	-2.78		Crippen Method
logp	2.746		Crippen Method
mcvol	177.590	ml/mol	McGowan Method
pc	2068.00	kPa	Joback Method
rinpol	1463.50		NIST Webbook
rinpol	1463.50		NIST Webbook
tb	565.68	K	Joback Method
tc	724.05	K	Joback Method
tf	296.78	K	Joback Method
vc	0.689	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	455.90	J/molxK	565.68	Joback Method
cpg	519.95	J/molxK	697.65	Joback Method
cpg	508.11	J/molxK	671.26	Joback Method
cpg	495.80	J/molxK	644.86	Joback Method
cpg	483.00	J/molxK	618.47	Joback Method
cpg	469.70	J/molxK	592.07	Joback Method

cpg	531.31	J/molxK	724.05	Joback Method
dvisc	0.0000763	Paxs	565.68	Joback Method
dvisc	0.0001240	Paxs	520.86	Joback Method
dvisc	0.0002206	Paxs	476.05	Joback Method
dvisc	0.0004424	Paxs	431.23	Joback Method
dvisc	0.0010427	Paxs	386.41	Joback Method
dvisc	0.0030776	Paxs	341.60	Joback Method
dvisc	0.0125964	Paxs	296.78	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C18913047&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan 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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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