

Ethanol, 2-(decyloxy)-

Other names:	2-(decyloxy)ethanol
Inchi:	InChI=1S/C12H26O2/c1-2-3-4-5-6-7-8-9-11-14-12-10-13/h13H,2-12H2,1H3
InchiKey:	CBVDPTYIDMQDEO-UHFFFAOYSA-N
Formula:	C12H26O2
SMILES:	CCCCCCCCCOCCO
Mol. weight [g/mol]:	202.33
CAS:	23238-40-6

Physical Properties

Property code	Value	Unit	Source
gf	-191.66	kJ/mol	Joback Method
hf	-575.46	kJ/mol	Joback Method
hfus	32.11	kJ/mol	Joback Method
hvap	61.39	kJ/mol	Joback Method
log10ws	-3.20		Crippen Method
logp	3.136		Crippen Method
mcvol	191.680	ml/mol	McGowan Method
pc	1898.60	kPa	Joback Method
rinpol	1566.70		NIST Webbook
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tb	588.56	K	Joback Method
tc	746.86	K	Joback Method
tf	308.05	K	Joback Method
vc	0.745	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	506.48	J/molxK	588.56	Joback Method
cpg	573.55	J/molxK	720.48	Joback Method
cpg	561.18	J/molxK	694.10	Joback Method
cpg	548.30	J/molxK	667.71	Joback Method
cpg	534.89	J/molxK	641.33	Joback Method
cpg	520.96	J/molxK	614.94	Joback Method

cpg	585.42	J/molxK	746.86	Joback Method
dvisc	0.0000634	Paxs	588.56	Joback Method
dvisc	0.0001025	Paxs	541.81	Joback Method
dvisc	0.0001816	Paxs	495.06	Joback Method
dvisc	0.0003627	Paxs	448.30	Joback Method
dvisc	0.0008505	Paxs	401.55	Joback Method
dvisc	0.0024969	Paxs	354.80	Joback Method
dvisc	0.0101649	Paxs	308.05	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C23238406&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

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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