5-Ethyl-4-nonanol

Other names:	4-nonanol, 5-ethyl-
Inchi:	InChI=1S/C11H24O/c1-4-7-9-10(6-3)11(12)8-5-2/h10-12H,4-9H2,1-3H3
InchiKey:	UWOWBSBTVUWTFJ-UHFFFAOYSA-N
Formula:	C11H24O
SMILES:	CCCCC(CC)C(O)CCC
Mol. weight [g/mol]:	172.31
CAS:	19780-73-5

Physical Properties

Property code	Value	Unit	Source
gf	-99.96	kJ/mol	Joback Method
hf	-433.16	kJ/mol	Joback Method
hfus	21.29	kJ/mol	Joback Method
hvap	55.98	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.364		Crippen Method
mcvol	171.720	ml/mol	McGowan Method
pc	2131.49	kPa	Joback Method
tb	542.38	K	Joback Method
tc	705.81	K	Joback Method
tf	244.55	K	Joback Method
vc	0.658	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	429.18	J/mol×K	542.38	Joback Method
cpg	443.73	J/mol×K	569.62	Joback Method
cpg	457.69	J/mol×K	596.86	Joback Method
cpg	471.09	J/mol×K	624.10	Joback Method
cpg	483.93	J/mol×K	651.33	Joback Method
cpg	496.25	J/mol×K	678.57	Joback Method
cpg	508.04	J/mol×K	705.81	Joback Method
dvisc	0.1063589	Pa×s	244.55	Joback Method

dvisc	0.0121747	Pa×s	294.19	Joback Method
dvisc	0.0026058	Pa×s	343.83	Joback Method
dvisc	0.0008229	Pa×s	393.47	Joback Method
dvisc	0.0003364	Pa×s	443.10	Joback Method
dvisc	0.0001647	Pa×s	492.74	Joback Method
dvisc	0.0000919	Pa×s	542.38	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19780735&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume