

2-Heptanol, 5-ethyl-

Other names:	5-Ethyl-2-heptanol
Inchi:	InChI=1S/C9H20O/c1-4-9(5-2)7-6-8(3)10/h8-10H,4-7H2,1-3H3
InchiKey:	DYNOLYWQCYQCKX-UHFFFAOYSA-N
Formula:	C9H20O
SMILES:	CCC(CC)CCC(C)O
Mol. weight [g/mol]:	144.25
CAS:	19780-40-6

Physical Properties

Property code	Value	Unit	Source
gf	-116.80	kJ/mol	Joback Method
hf	-391.88	kJ/mol	Joback Method
hfus	16.11	kJ/mol	Joback Method
hvap	51.53	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.584		Crippen Method
mcvol	143.540	ml/mol	McGowan Method
pc	2566.29	kPa	Joback Method
tb	496.62	K	Joback Method
tc	661.81	K	Joback Method
tf	222.01	K	Joback Method
vc	0.546	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	334.77	J/molxK	496.62	Joback Method
cpg	347.81	J/molxK	524.15	Joback Method
cpg	360.33	J/molxK	551.68	Joback Method
cpg	372.35	J/molxK	579.21	Joback Method
cpg	383.89	J/molxK	606.75	Joback Method
cpg	394.96	J/molxK	634.28	Joback Method
cpg	405.56	J/molxK	661.81	Joback Method
dvisc	0.2091511	Paxs	222.01	Joback Method

dvisc	0.0215322	Paxs	267.78	Joback Method
dvisc	0.0043049	Paxs	313.55	Joback Method
dvisc	0.0012970	Paxs	359.31	Joback Method
dvisc	0.0005125	Paxs	405.08	Joback Method
dvisc	0.0002445	Paxs	450.85	Joback Method
dvisc	0.0001337	Paxs	496.62	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C19780406&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

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