

# 1-Heptanol, 2-propyl-

<b>Other names:</b>	2-Propylheptanol 2-propylheptan-1-ol
<b>Inchi:</b>	InChI=1S/C10H22O/c1-3-5-6-8-10(9-11)7-4-2/h10-11H,3-9H2,1-2H3
<b>InchiKey:</b>	YLQLIQIAXYRMDL-UHFFFAOYSA-N
<b>Formula:</b>	C10H22O
<b>SMILES:</b>	CCCCCC(CO)CCC
<b>Mol. weight [g/mol]:</b>	158.28
<b>CAS:</b>	10042-59-8

## Physical Properties

Property code	Value	Unit	Source
gf	-105.94	kJ/mol	Joback Method
hf	-407.24	kJ/mol	Joback Method
hfus	22.22	kJ/mol	Joback Method
hvap	54.14	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.975		Crippen Method
mvol	157.630	ml/mol	McGowan Method
pc	2315.84	kPa	Joback Method
tb	519.94	K	Joback Method
tc	681.25	K	Joback Method
tf	248.28	K	Joback Method
vc	0.609	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	380.84	J/molxK	519.94	Joback Method
cpg	394.36	J/molxK	546.83	Joback Method
cpg	407.36	J/molxK	573.71	Joback Method
cpg	419.85	J/molxK	600.60	Joback Method
cpg	431.84	J/molxK	627.48	Joback Method
cpg	443.35	J/molxK	654.37	Joback Method
cpg	454.40	J/molxK	681.25	Joback Method

dvisc	0.0660457	Paxs	248.28	Joback Method
dvisc	0.0101842	Paxs	293.56	Joback Method
dvisc	0.0025882	Paxs	338.83	Joback Method
dvisc	0.0009085	Paxs	384.11	Joback Method
dvisc	0.0003977	Paxs	429.39	Joback Method
dvisc	0.0002038	Paxs	474.66	Joback Method
dvisc	0.0001173	Paxs	519.94	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C10042598&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10042598&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307i">http://pubs.acs.org/doi/abs/10.1021/ci990307i</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/48-916-2/1-Heptanol-2-propyl.pdf>

Generated by Cheméo on 2024-08-10 11:03:34.776682488 +0000 UTC m=+1977684.023787853.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.