

# 2,2,4-Trimethyl-3-keto-pentanol

<b>Inchi:</b>	InChI=1S/C8H16O2/c1-6(2)7(10)8(3,4)5-9/h6,9H,5H2,1-4H3
<b>InchiKey:</b>	PYSAJDICZJMKGG-UHFFFAOYSA-N
<b>Formula:</b>	C8H16O2
<b>SMILES:</b>	CC(C)C(=O)C(C)(C)CO
<b>Mol. weight [g/mol]:</b>	144.21
<b>CAS:</b>	15904-30-0

## Physical Properties

Property code	Value	Unit	Source
gf	-248.86	kJ/mol	Joback Method
hf	-487.29	kJ/mol	Joback Method
hfus	11.23	kJ/mol	Joback Method
hvap	55.14	kJ/mol	Joback Method
log10ws	-1.23		Crippen Method
logp	1.230		Crippen Method
mvol	131.020	ml/mol	McGowan Method
pc	3072.75	kPa	Joback Method
tb	524.82	K	Joback Method
tc	706.52	K	Joback Method
tf	278.09	K	Joback Method
vc	0.491	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	313.11	J/molxK	524.82	Joback Method
cpg	324.99	J/molxK	555.10	Joback Method
cpg	336.25	J/molxK	585.39	Joback Method
cpg	346.92	J/molxK	615.67	Joback Method
cpg	357.02	J/molxK	645.95	Joback Method
cpg	366.58	J/molxK	676.24	Joback Method
cpg	375.62	J/molxK	706.52	Joback Method
dvisc	0.0360166	Paxs	278.09	Joback Method
dvisc	0.0077807	Paxs	319.21	Joback Method

dvisc	0.0023847	Paxs	360.33	Joback Method
dvisc	0.0009312	Paxs	401.45	Joback Method
dvisc	0.0004331	Paxs	442.58	Joback Method
dvisc	0.0002294	Paxs	483.70	Joback Method
dvisc	0.0001342	Paxs	524.82	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=C15904300&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C15904300&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>mccvol:</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/58-358-1/2-2-4-Trimethyl-3-keto-pentanol.pdf>

Generated by Cheméo on 2024-04-23 15:11:34.588142109 +0000 UTC m=+16174343.508719424.

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