

# 2-Hexanone, 1,1,1,3,3-d5-

<b>Inchi:</b>	InChI=1S/C6H12O/c1-3-4-5-6(2)7/h3-5H2,1-2H3/i2D3,5D2
<b>InchiKey:</b>	QQZOPKMRPOGIEB-ZTIZGVCASA-N
<b>Formula:</b>	C6H7D5O
<b>SMILES:</b>	CCCCC(C)=O
<b>Mol. weight [g/mol]:</b>	105.19
<b>CAS:</b>	4840-82-8

## Physical Properties

Property code	Value	Unit	Source
gf	-129.28	kJ/mol	Joback Method
hf	-279.75	kJ/mol	Joback Method
hfus	12.89	kJ/mol	Joback Method
hvap	35.70	kJ/mol	Joback Method
log10ws	-1.61		Crippen Method
logp	1.766		Crippen Method
mcvol	96.970	ml/mol	McGowan Method
pc	3337.38	kPa	Joback Method
tb	390.55	K	Joback Method
tc	568.08	K	Joback Method
tf	207.31	K	Joback Method
vc	0.378	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.72	J/molxK	390.55	Joback Method
cpg	187.80	J/molxK	420.14	Joback Method
cpg	197.51	J/molxK	449.73	Joback Method
cpg	206.83	J/molxK	479.31	Joback Method
cpg	215.79	J/molxK	508.90	Joback Method
cpg	224.39	J/molxK	538.49	Joback Method
cpg	232.63	J/molxK	568.08	Joback Method
dvisc	0.0038104	Paxs	207.31	Joback Method
dvisc	0.0019023	Paxs	237.85	Joback Method

dvisc	0.0011124	Paxs	268.39	Joback Method
dvisc	0.0007258	Paxs	298.93	Joback Method
dvisc	0.0005126	Paxs	329.47	Joback Method
dvisc	0.0003840	Paxs	360.01	Joback Method
dvisc	0.0003010	Paxs	390.55	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=C4840828&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C4840828&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/70-141-7/2-Hexanone-1-1-1-3-3-d5.pdf>

Generated by Cheméo on 2024-04-20 16:15:31.938783446 +0000 UTC m=+15918980.859360766.

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