

# 1-(3,4-Dimethoxyphenyl)hexan-3-one

<b>Inchi:</b>	InChI=1S/C14H20O3/c1-4-5-12(15)8-6-11-7-9-13(16-2)14(10-11)17-3/h7,9-10H,4-6,8H2
<b>InchiKey:</b>	PQRJLNAKELCEAC-UHFFFAOYSA-N
<b>Formula:</b>	C14H20O3
<b>SMILES:</b>	CCCC(=O)CCc1ccc(OC)c(OC)c1
<b>Mol. weight [g/mol]:</b>	236.31
<b>CAS:</b>	39728-57-9

## Physical Properties

Property code	Value	Unit	Source
gf	-178.77	kJ/mol	Joback Method
hf	-495.72	kJ/mol	Joback Method
hfus	29.25	kJ/mol	Joback Method
hvap	61.92	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	3.006		Crippen Method
mcvol	197.670	ml/mol	McGowan Method
pc	2007.30	kPa	Joback Method
rinpol	1828.50		NIST Webbook
rinpol	1828.50		NIST Webbook
tb	655.07	K	Joback Method
tc	855.23	K	Joback Method
tf	393.39	K	Joback Method
vc	0.753	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	520.54	J/mol×K	655.07	Joback Method
cpg	590.56	J/mol×K	821.87	Joback Method
cpg	578.19	J/mol×K	788.51	Joback Method
cpg	565.00	J/mol×K	755.15	Joback Method
cpg	551.00	J/mol×K	721.79	Joback Method
cpg	536.18	J/mol×K	688.43	Joback Method
cpg	602.13	J/mol×K	855.23	Joback Method

dvisc	0.0001171	Paxs	655.07	Joback Method
dvisc	0.0001464	Paxs	611.46	Joback Method
dvisc	0.0001894	Paxs	567.84	Joback Method
dvisc	0.0002557	Paxs	524.23	Joback Method
dvisc	0.0003646	Paxs	480.62	Joback Method
dvisc	0.0005581	Paxs	437.00	Joback Method
dvisc	0.0009388	Paxs	393.39	Joback Method

## Sources

<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>
<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=C39728579&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C39728579&amp;Units=SI</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>mvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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