

# 1-(2,4,5-Trimethoxyphenyl)propan-2-one

<b>Inchi:</b>	InChI=1S/C12H16O4/c1-8(13)5-9-6-11(15-3)12(16-4)7-10(9)14-2/h6-7H,5H2,1-4H3
<b>InchiKey:</b>	AQZHZZTUVYQMIN-UHFFFAOYSA-N
<b>Formula:</b>	C12H16O4
<b>SMILES:</b>	COc1cc(OC)c(OC)cc1CC(C)=O
<b>Mol. weight [g/mol]:</b>	224.25
<b>CAS:</b>	2020-90-8

## Physical Properties

Property code	Value	Unit	Source
gf	-310.24	kJ/mol	Joback Method
hf	-598.13	kJ/mol	Joback Method
hfus	24.87	kJ/mol	Joback Method
hvap	60.54	kJ/mol	Joback Method
log10ws	-2.33		Crippen Method
logp	1.844		Crippen Method
mvol	175.360	ml/mol	McGowan Method
pc	2329.27	kPa	Joback Method
rinpol	1751.10		NIST Webbook
rinpol	1751.10		NIST Webbook
tb	636.71	K	Joback Method
tc	841.45	K	Joback Method
tf	405.60	K	Joback Method
vc	0.659	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	443.68	J/molxK	636.71	Joback Method
cpg	457.73	J/molxK	670.83	Joback Method
cpg	471.10	J/molxK	704.96	Joback Method
cpg	483.78	J/molxK	739.08	Joback Method
cpg	495.73	J/molxK	773.20	Joback Method
cpg	506.94	J/molxK	807.33	Joback Method
cpg	517.39	J/molxK	841.45	Joback Method

dvisc	0.0006338	Paxs	405.60	Joback Method
dvisc	0.0004193	Paxs	444.12	Joback Method
dvisc	0.0002963	Paxs	482.64	Joback Method
dvisc	0.0002204	Paxs	521.15	Joback Method
dvisc	0.0001707	Paxs	559.67	Joback Method
dvisc	0.0001367	Paxs	598.19	Joback Method
dvisc	0.0001124	Paxs	636.71	Joback Method

## Sources

<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=C2020908&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C2020908&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>

## 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>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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