

# 2',3',4' Trimethoxyacetophenone

<b>Other names:</b>	2,3,4-Trimethoxyacetophenone Ethanone, 1-(2,3,4-trimethoxyphenyl)- 1-(2,3,4-trimethoxyphenyl)-ethanone
<b>Inchi:</b>	InChI=1S/C11H14O4/c1-7(12)8-5-6-9(13-2)11(15-4)10(8)14-3/h5-6H,1-4H3
<b>InchiKey:</b>	PKNAATJMQOUREZ-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O4
<b>SMILES:</b>	COc1ccc(C(C)=O)c(OC)c1OC
<b>Mol. weight [g/mol]:</b>	210.23
<b>CAS:</b>	13909-73-4

## Physical Properties

Property code	Value	Unit	Source
gf	-318.66	kJ/mol	Joback Method
hf	-577.49	kJ/mol	Joback Method
hfus	22.28	kJ/mol	Joback Method
hvap	58.32	kJ/mol	Joback Method
log10ws	-2.49		Crippen Method
logp	1.915		Crippen Method
mcvol	161.270	ml/mol	McGowan Method
pc	2561.10	kPa	Joback Method
ripol	2239.00		NIST Webbook
ripol	2239.00		NIST Webbook
tb	569.20	K	NIST Webbook
tc	821.66	K	Joback Method
tf	394.33	K	Joback Method
vc	0.604	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	394.23	J/molxK	613.83	Joback Method
cpg	407.53	J/molxK	648.47	Joback Method
cpg	420.23	J/molxK	683.11	Joback Method
cpg	432.28	J/molxK	717.75	Joback Method

cpg	443.68	J/molxK	752.39	Joback Method
cpg	454.40	J/molxK	787.02	Joback Method
cpg	464.40	J/molxK	821.66	Joback Method
dvisc	0.0006543	Paxs	394.33	Joback Method
dvisc	0.0004404	Paxs	430.91	Joback Method
dvisc	0.0003154	Paxs	467.50	Joback Method
dvisc	0.0002371	Paxs	504.08	Joback Method
dvisc	0.0001853	Paxs	540.66	Joback Method
dvisc	0.0001494	Paxs	577.25	Joback Method
dvisc	0.0001235	Paxs	613.83	Joback Method

## Sources

<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>
<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=C13909734&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C13909734&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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>ripol:</b>	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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