

# 3-Butanone,1-(2,3,6-trimethylphenyl)-

<b>Other names:</b>	4-(2,3,6-Trimethylphenyl)-2-butanone 4-(2,3,6-Trimethylphenyl)butan-2-one
<b>Inchi:</b>	InChI=1S/C13H18O/c1-9-5-6-10(2)13(12(9)4)8-7-11(3)14/h5-6H,7-8H2,1-4H3
<b>InchiKey:</b>	YTAQPZUVJBPHEJ-UHFFFAOYSA-N
<b>Formula:</b>	C13H18O
<b>SMILES:</b>	CC(=O)CCc1c(C)ccc(C)c1C
<b>Mol. weight [g/mol]:</b>	190.28
<b>CAS:</b>	58720-40-4

## Physical Properties

Property code	Value	Unit	Source
gf	13.18	kJ/mol	Joback Method
hf	-222.11	kJ/mol	Joback Method
hfus	23.90	kJ/mol	Joback Method
hvap	55.54	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	3.133		Crippen Method
mcvol	171.840	ml/mol	McGowan Method
pc	2231.30	kPa	Joback Method
rinpol	1445.00		NIST Webbook
rinpol	1445.00		NIST Webbook
ripol	2193.00		NIST Webbook
ripol	2193.00		NIST Webbook
tb	592.33	K	Joback Method
tc	800.18	K	Joback Method
tf	350.18	K	Joback Method
vc	0.661	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	416.32	J/molxK	592.33	Joback Method
cpg	431.75	J/molxK	626.97	Joback Method
cpg	446.37	J/molxK	661.61	Joback Method

cpg	460.21	J/molxK	696.26	Joback Method
cpg	473.29	J/molxK	730.90	Joback Method
cpg	485.63	J/molxK	765.54	Joback Method
cpg	497.26	J/molxK	800.18	Joback Method
dvisc	0.0013712	Paxs	350.18	Joback Method
dvisc	0.0008401	Paxs	390.54	Joback Method
dvisc	0.0005641	Paxs	430.90	Joback Method
dvisc	0.0004056	Paxs	471.25	Joback Method
dvisc	0.0003072	Paxs	511.61	Joback Method
dvisc	0.0002423	Paxs	551.97	Joback Method
dvisc	0.0001974	Paxs	592.33	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C58720404&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C58720404&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>
<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>

## 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>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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