

# (3E)-4-(2,3,6-trimethylphenyl)-3-buten-2-one

<b>Other names:</b>	(E)-4-(2',3',6'-trimethylphenyl)-3-buten-2-one
<b>Inchi:</b>	InChI=1S/C13H16O/c1-9-5-6-10(2)13(12(9)4)8-7-11(3)14/h5-8H,1-4H3/b8-7+
<b>InchiKey:</b>	AHHGVKNOSDJAQN-BQYQJAHWSA-N
<b>Formula:</b>	C13H16O
<b>SMILES:</b>	CC(=O)C=Cc1c(C)ccc(C)c1C
<b>Mol. weight [g/mol]:</b>	188.27
<b>CAS:</b>	57461-21-9

## Physical Properties

Property code	Value	Unit	Source
gf	93.40	kJ/mol	Joback Method
hf	-104.89	kJ/mol	Joback Method
hfus	24.10	kJ/mol	Joback Method
hvap	55.50	kJ/mol	Joback Method
log10ws	-3.84		Crippen Method
logp	3.214		Crippen Method
mcvol	167.540	ml/mol	McGowan Method
pc	2345.09	kPa	Joback Method
rinpol	1475.00		NIST Webbook
rinpol	1475.00		NIST Webbook
ripol	2102.00		NIST Webbook
tb	596.49	K	Joback Method
tc	813.26	K	Joback Method
tf	345.10	K	Joback Method
vc	0.641	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	396.21	J/mol×K	596.49	Joback Method
cpg	462.60	J/mol×K	777.13	Joback Method
cpg	450.88	J/mol×K	741.00	Joback Method
cpg	438.41	J/mol×K	704.87	Joback Method
cpg	425.17	J/mol×K	668.75	Joback Method

cpg	411.12	J/molxK	632.62	Joback Method
cpg	473.62	J/molxK	813.26	Joback Method
dvisc	0.0001689	Paxs	596.49	Joback Method
dvisc	0.0002078	Paxs	554.59	Joback Method
dvisc	0.0002644	Paxs	512.69	Joback Method
dvisc	0.0003513	Paxs	470.80	Joback Method
dvisc	0.0004933	Paxs	428.90	Joback Method
dvisc	0.0007457	Paxs	387.00	Joback Method
dvisc	0.0012461	Paxs	345.10	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=C57461219&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C57461219&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>mccvol:</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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