

# Acetic acid, 2-methylphenyl ester

<b>Other names:</b>	Acetic acid, o-tolyl ester o-Acetoxytoluene o-Cresol acetate o-Cresyl acetate o-Cresylic acetate o-Methylphenyl acetate o-Tolyl acetate Acetyl-o-cresol 2-Methylphenyl acetate 2-Methylphenyl ester of acetic acid 2-Acetoxytoluene NSC 58961
<b>Inchi:</b>	InChI=1S/C9H10O2/c1-7-5-3-4-6-9(7)11-8(2)10/h3-6H,1-2H3
<b>InchiKey:</b>	AMZORBZSQRUXNC-UHFFFAOYSA-N
<b>Formula:</b>	C9H10O2
<b>SMILES:</b>	CC(=O)Oc1ccccc1C
<b>Mol. weight [g/mol]:</b>	150.17
<b>CAS:</b>	533-18-6

## Physical Properties

Property code	Value	Unit	Source
gf	-106.24	kJ/mol	Joback Method
hf	-248.83	kJ/mol	Joback Method
hfus	15.50	kJ/mol	Joback Method
hvap	47.72	kJ/mol	Joback Method
ie	9.10	eV	NIST Webbook
ie	8.38 ± 0.02	eV	NIST Webbook
log10ws	-2.26		Crippen Method
logp	1.920		Crippen Method
mcvol	121.350	ml/mol	McGowan Method
pc	3380.21	kPa	Joback Method
rinpol	1111.00		NIST Webbook
rinpol	1109.00		NIST Webbook
rinpol	1122.00		NIST Webbook
ripol	1716.00		NIST Webbook
ripol	1716.00		NIST Webbook
tb	481.20	K	NIST Webbook

tc	730.64	K	Joback Method
tf	302.29	K	Joback Method
vc	0.456	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.24	J/mol×K	513.27	Joback Method
cpg	268.48	J/mol×K	549.50	Joback Method
cpg	280.07	J/mol×K	585.73	Joback Method
cpg	291.03	J/mol×K	621.95	Joback Method
cpg	301.35	J/mol×K	658.18	Joback Method
cpg	311.06	J/mol×K	694.41	Joback Method
cpg	320.16	J/mol×K	730.64	Joback Method
dvisc	0.0017319	Paxs	302.29	Joback Method
dvisc	0.0010297	Paxs	337.45	Joback Method
dvisc	0.0006754	Paxs	372.62	Joback Method
dvisc	0.0004764	Paxs	407.78	Joback Method
dvisc	0.0003552	Paxs	442.94	Joback Method
dvisc	0.0002765	Paxs	478.11	Joback Method
dvisc	0.0002227	Paxs	513.27	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C533186&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C533186&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>
<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>ie:</b>	Ionization energy
<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

Latest version available from:

<https://www.cheméo.com/cid/39-100-7/Acetic-acid-2-methylphenyl-ester.pdf>

Generated by Cheméo on 2024-04-17 16:57:15.113947477 +0000 UTC m=+15662284.034524792.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.