

# 4-Acetoxy-3-methoxystyrene

<b>Inchi:</b>	InChI=1S/C11H12O3/c1-4-9-5-6-10(14-8(2)12)11(7-9)13-3/h4-7H,1H2,2-3H3
<b>InchiKey:</b>	FTBUUBIPWKNBRF-UHFFFAOYSA-N
<b>Formula:</b>	C11H12O3
<b>SMILES:</b>	<chem>C=Cc1ccc(OC(C)=O)c(OC)c1</chem>
<b>Mol. weight [g/mol]:</b>	192.21
<b>CAS:</b>	46316-15-8

## Physical Properties

Property code	Value	Unit	Source
gf	-116.19	kJ/mol	Joback Method
hf	-308.37	kJ/mol	Joback Method
hfus	20.20	kJ/mol	Joback Method
hvap	54.58	kJ/mol	Joback Method
log10ws	-2.73		Crippen Method
logp	2.263		Crippen Method
mcvol	151.100	ml/mol	McGowan Method
pc	2764.26	kPa	Joback Method
ripol	2235.00		NIST Webbook
tb	583.11	K	Joback Method
tc	796.46	K	Joback Method
tf	357.82	K	Joback Method
vc	0.567	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	349.95	J/molxK	583.11	Joback Method
cpg	362.93	J/molxK	618.67	Joback Method
cpg	375.24	J/molxK	654.23	Joback Method
cpg	386.88	J/molxK	689.79	Joback Method
cpg	397.85	J/molxK	725.34	Joback Method
cpg	408.15	J/molxK	760.90	Joback Method
cpg	417.76	J/molxK	796.46	Joback Method
dvisc	0.0010109	Paxs	357.82	Joback Method

dvisc	0.0006434	Paxs	395.37	Joback Method
dvisc	0.0004429	Paxs	432.92	Joback Method
dvisc	0.0003236	Paxs	470.47	Joback Method
dvisc	0.0002477	Paxs	508.01	Joback Method
dvisc	0.0001966	Paxs	545.56	Joback Method
dvisc	0.0001609	Paxs	583.11	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=C46316158&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C46316158&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>

## 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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