

# Ethyl syringoate

<b>Other names:</b>	Syringic acid, ethyl ester
<b>Inchi:</b>	InChI=1S/C11H14O5/c1-4-16-11(13)7-5-8(14-2)10(12)9(6-7)15-3/h5-6,12H,4H2,1-3H3
<b>InchiKey:</b>	WKUVKFZZCHINKG-UHFFFAOYSA-N
<b>Formula:</b>	C11H14O5
<b>SMILES:</b>	CCOC(=O)c1cc(OC)c(O)c(OC)c1
<b>Mol. weight [g/mol]:</b>	226.23
<b>CAS:</b>	3943-80-4

## Physical Properties

Property code	Value	Unit	Source
gf	-463.65	kJ/mol	Joback Method
hf	-743.33	kJ/mol	Joback Method
hfus	28.46	kJ/mol	Joback Method
hvap	70.67	kJ/mol	Joback Method
log10ws	-1.92		Crippen Method
logp	1.586		Crippen Method
mcvol	167.140	ml/mol	McGowan Method
pc	3045.68	kPa	Joback Method
ripol	2932.00		NIST Webbook
tb	689.47	K	Joback Method
tc	905.48	K	Joback Method
tf	493.53	K	Joback Method
vc	0.570	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.92	J/molxK	689.47	Joback Method
cpg	499.29	J/molxK	869.48	Joback Method
cpg	489.68	J/molxK	833.48	Joback Method
cpg	479.46	J/molxK	797.48	Joback Method
cpg	468.60	J/molxK	761.47	Joback Method
cpg	457.09	J/molxK	725.47	Joback Method
cpg	508.29	J/molxK	905.48	Joback Method

dvisc	0.0000120	Paxs	689.47	Joback Method
dvisc	0.0000165	Paxs	656.81	Joback Method
dvisc	0.0000234	Paxs	624.16	Joback Method
dvisc	0.0000346	Paxs	591.50	Joback Method
dvisc	0.0000534	Paxs	558.84	Joback Method
dvisc	0.0000871	Paxs	526.19	Joback Method
dvisc	0.0001516	Paxs	493.53	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=C3943804&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3943804&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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