

# 4-Ethylbenzoic acid, 2,6-dimethylnon-1-en-3-yn-5-yl ester

Inchi:	InChI=1S/C20H26O2/c1-6-8-16(5)19(14-9-15(3)4)22-20(21)18-12-10-17(7-2)11-13-18/h
InchiKey:	RCCWFOTWJIIRJG-UHFFFAOYSA-N
Formula:	C20H26O2
SMILES:	<chem>C=C(C)C#CC(OC(=O)c1ccc(CC)cc1)C(C)CCC</chem>
Mol. weight [g/mol]:	298.42

## Physical Properties

Property code	Value	Unit	Source
gf	263.59	kJ/mol	Joback Method
hf	-98.49	kJ/mol	Joback Method
hfus	37.48	kJ/mol	Joback Method
hvap	72.99	kJ/mol	Joback Method
log10ws	-6.22		Crippen Method
logp	4.790		Crippen Method
mcvol	263.440	ml/mol	McGowan Method
pc	1534.26	kPa	Joback Method
rinsol	2087.80		NIST Webbook
tb	769.63	K	Joback Method
tc	987.46	K	Joback Method
tf	486.64	K	Joback Method
vc	1.004	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	753.20	J/mol×K	769.63	Joback Method
cpg	771.17	J/mol×K	805.94	Joback Method
cpg	787.96	J/mol×K	842.24	Joback Method
cpg	803.61	J/mol×K	878.55	Joback Method
cpg	818.16	J/mol×K	914.85	Joback Method
cpg	831.67	J/mol×K	951.16	Joback Method
cpg	844.18	J/mol×K	987.46	Joback Method

# Sources

<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=U292547&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U292547&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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-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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