

# 1,2-Diethoxy-3-ethylbenzene

<b>Other names:</b>	Benzene, 1,2-diethoxy-3-ethyl
<b>Inchi:</b>	InChI=1S/C12H18O2/c1-4-10-8-7-9-11(13-5-2)12(10)14-6-3/h7-9H,4-6H2,1-3H3
<b>InchiKey:</b>	FAZOHODJTTYSEH-UHFFFAOYSA-N
<b>Formula:</b>	C12H18O2
<b>SMILES:</b>	CCOc1cccc(CC)c1OCC
<b>Mol. weight [g/mol]:</b>	194.27
<b>CAS:</b>	131358-05-9

## Physical Properties

Property code	Value	Unit	Source
gf	-66.69	kJ/mol	Joback Method
hf	-341.86	kJ/mol	Joback Method
hfus	22.47	kJ/mol	Joback Method
hvap	50.73	kJ/mol	Joback Method
log10ws	-3.35		Crippen Method
logp	3.046		Crippen Method
mcvol	167.920	ml/mol	McGowan Method
pc	2261.11	kPa	Joback Method
rinpol	1384.00		NIST Webbook
rinpol	1384.00		NIST Webbook
tb	555.44	K	Joback Method
tc	753.59	K	Joback Method
tf	320.92	K	Joback Method
vc	0.635	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.67	J/molxK	555.44	Joback Method
cpg	469.46	J/molxK	720.57	Joback Method
cpg	456.65	J/molxK	687.54	Joback Method
cpg	443.16	J/molxK	654.52	Joback Method
cpg	429.00	J/molxK	621.49	Joback Method
cpg	414.17	J/molxK	588.47	Joback Method

cpg	481.59	J/mol×K	753.59	Joback Method
dvisc	0.0001336	Paxs	555.44	Joback Method
dvisc	0.0001666	Paxs	516.35	Joback Method
dvisc	0.0002152	Paxs	477.27	Joback Method
dvisc	0.0002910	Paxs	438.18	Joback Method
dvisc	0.0004176	Paxs	399.09	Joback Method
dvisc	0.0006481	Paxs	360.01	Joback Method
dvisc	0.0011194	Paxs	320.92	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=C131358059&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C131358059&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>

## 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>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

Latest version available from:

<https://www.chemeo.com/cid/27-130-7/1-2-Diethoxy-3-ethylbenzene.pdf>

Generated by Cheméo on 2024-04-19 15:40:57.569501904 +0000 UTC m=+15830506.490079224.

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