

# 5-Ethoxy-2-hydroxy-m-xylene-alpha<sup>1</sup>,alpha<sup>3</sup>-di

<b>Other names:</b>	5-Ethoxy-2-hydroxy-m-xylene-alpha
<b>Inchi:</b>	InChI=1S/C10H14O4/c1-2-14-9-3-7(5-11)10(13)8(4-9)6-12/h3-4,11-13H,2,5-6H2,1H3
<b>InchiKey:</b>	NBFKYLZEXFDQTQ-UHFFFAOYSA-N
<b>Formula:</b>	C10H14O4
<b>SMILES:</b>	CCOc1cc(CO)c(O)c(CO)c1
<b>Mol. weight [g/mol]:</b>	198.22
<b>CAS:</b>	131378-52-4

## Physical Properties

Property code	Value	Unit	Source
gf	-406.79	kJ/mol	Joback Method
hf	-650.13	kJ/mol	Joback Method
hfus	30.07	kJ/mol	Joback Method
hvap	90.24	kJ/mol	Joback Method
log10ws	-1.84		Crippen Method
logp	0.775		Crippen Method
mcvol	151.480	ml/mol	McGowan Method
pc	4103.88	kPa	Joback Method
tb	752.24	K	Joback Method
tc	946.72	K	Joback Method
tf	509.51	K	Joback Method
vc	0.509	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	428.60	J/molxK	752.24	Joback Method
cpg	469.98	J/molxK	914.31	Joback Method
cpg	462.38	J/molxK	881.89	Joback Method
cpg	454.48	J/molxK	849.48	Joback Method
cpg	446.25	J/molxK	817.07	Joback Method
cpg	437.63	J/molxK	784.65	Joback Method
cpg	477.32	J/molxK	946.72	Joback Method
dvisc	0.0000007	Paxs	752.24	Joback Method

dvisc	0.0000012	Paxs	711.79	Joback Method
dvisc	0.0000023	Paxs	671.33	Joback Method
dvisc	0.0000046	Paxs	630.88	Joback Method
dvisc	0.0000101	Paxs	590.42	Joback Method
dvisc	0.0000248	Paxs	549.97	Joback Method
dvisc	0.0000708	Paxs	509.51	Joback Method

## Sources

<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=C131378524&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C131378524&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>

## Legend

<b>cp<sub>g</sub>:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>g<sub>f</sub>:</b>	Standard Gibbs free energy of formation
<b>h<sub>f</sub>:</b>	Enthalpy of formation at standard conditions
<b>h<sub>fus</sub>:</b>	Enthalpy of fusion at standard conditions
<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>log<sub>10</sub>ws:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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