

# 1,2-Cyclohexanedicarboxylic acid, di(3,5-dimethylphenyl) ester

<b>Inchi:</b>	InChI=1S/C24H28O4/c1-15-9-16(2)12-19(11-15)27-23(25)21-7-5-6-8-22(21)24(26)28-20
<b>InchiKey:</b>	XXQPIIKDZSPUSZ-UHFFFAOYSA-N
<b>Formula:</b>	C24H28O4
<b>SMILES:</b>	<chem>Cc1cc(C)cc(OC(=O)C2CCCCC2C(=O)Oc2cc(C)cc(C)c2)c1</chem>
<b>Mol. weight [g/mol]:</b>	380.48

## Physical Properties

Property code	Value	Unit	Source
gf	-113.60	kJ/mol	Joback Method
hf	-567.13	kJ/mol	Joback Method
hfus	42.92	kJ/mol	Joback Method
hvap	94.65	kJ/mol	Joback Method
log10ws	-6.74		Crippen Method
logp	5.238		Crippen Method
mcvol	305.520	ml/mol	McGowan Method
pc	1417.57	kPa	Joback Method
rinpol	2996.00		NIST Webbook
rinpol	2996.00		NIST Webbook
tb	989.26	K	Joback Method
tc	1231.81	K	Joback Method
tf	610.62	K	Joback Method
vc	1.143	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1011.18	J/molxK	989.26	Joback Method
cpg	1061.53	J/molxK	1191.39	Joback Method
cpg	1055.23	J/molxK	1150.96	Joback Method
cpg	1047.08	J/molxK	1110.54	Joback Method
cpg	1037.04	J/molxK	1070.11	Joback Method
cpg	1025.09	J/molxK	1029.69	Joback Method
cpg	1066.00	J/molxK	1231.81	Joback Method
dvisc	0.0000472	Paxs	989.26	Joback Method

dvisc	0.0000583	Paxs	926.15	Joback Method
dvisc	0.0000741	Paxs	863.05	Joback Method
dvisc	0.0000979	Paxs	799.94	Joback Method
dvisc	0.0001356	Paxs	736.83	Joback Method
dvisc	0.0001997	Paxs	673.73	Joback Method
dvisc	0.0003186	Paxs	610.62	Joback Method

## Sources

<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>
<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=U339623&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339623&amp;Units=SI</a>

## Legend

<b>cp<sub>g</sub>:</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>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>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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