

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

<b>Inchi:</b>	InChI=1S/C22H24O4/c1-15-7-5-9-17(13-15)25-21(23)19-11-3-4-12-20(19)22(24)26-18-1
<b>InchiKey:</b>	NDSUOXWAUCFZEK-UHFFFAOYSA-N
<b>Formula:</b>	C22H24O4
<b>SMILES:</b>	Cc1cccc(OC(=O)C2CCCCC2C(=O)Oc2cccc(C)c2)c1
<b>Mol. weight [g/mol]:</b>	352.42

## Physical Properties

Property code	Value	Unit	Source
gf	-111.18	kJ/mol	Joback Method
hf	-502.91	kJ/mol	Joback Method
hfus	38.52	kJ/mol	Joback Method
hvap	88.87	kJ/mol	Joback Method
log10ws	-5.79		Crippen Method
logp	4.621		Crippen Method
mvol	277.340	ml/mol	McGowan Method
pc	1687.95	kPa	Joback Method
rinpol	2759.00		NIST Webbook
rinpol	2759.00		NIST Webbook
tb	933.54	K	Joback Method
tc	1178.71	K	Joback Method
tf	563.04	K	Joback Method
vc	1.032	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	894.79	J/molxK	933.54	Joback Method
cpg	909.63	J/molxK	974.40	Joback Method
cpg	922.60	J/molxK	1015.26	Joback Method
cpg	933.75	J/molxK	1056.13	Joback Method
cpg	943.12	J/molxK	1096.99	Joback Method
cpg	950.75	J/molxK	1137.85	Joback Method
cpg	956.69	J/molxK	1178.71	Joback Method
dvisc	0.0004765	Paxs	563.04	Joback Method

dvisc	0.0002834	Paxs	624.79	Joback Method
dvisc	0.0001851	Paxs	686.54	Joback Method
dvisc	0.0001297	Paxs	748.29	Joback Method
dvisc	0.0000959	Paxs	810.04	Joback Method
dvisc	0.0000741	Paxs	871.79	Joback Method
dvisc	0.0000592	Paxs	933.54	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U339840&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339840&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>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</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

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