

# cis-Cyclohex-4-en-1,2-dicarboxylic acid, decyl 2-ethylbutyl ester

Inchi:	InChI=1S/C24H42O4/c1-4-7-8-9-10-11-12-15-18-27-23(25)21-16-13-14-17-22(21)24(26)
InchiKey:	VCYVWAOHWVAIMS-UHFFFAOYSA-N
Formula:	C24H42O4
SMILES:	CCCCCCCCCOC(=O)C1CC=CCC1C(=O)OCC(CC)CC
Mol. weight [g/mol]:	394.59

## Physical Properties

Property code	Value	Unit	Source
gf	-272.38	kJ/mol	Joback Method
hf	-941.81	kJ/mol	Joback Method
hfus	54.09	kJ/mol	Joback Method
hvap	87.35	kJ/mol	Joback Method
log10ws	-6.62		Crippen Method
logp	6.232		Crippen Method
mvol	348.740	ml/mol	McGowan Method
pc	968.07	kPa	Joback Method
rinpol	2633.00		NIST Webbook
rinpol	2633.00		NIST Webbook
tb	914.70	K	Joback Method
tc	1120.82	K	Joback Method
tf	493.46	K	Joback Method
vc	1.339	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1189.06	J/molxK	914.70	Joback Method
cpg	1208.12	J/molxK	949.05	Joback Method
cpg	1225.62	J/molxK	983.41	Joback Method
cpg	1241.59	J/molxK	1017.76	Joback Method
cpg	1256.05	J/molxK	1052.11	Joback Method
cpg	1269.05	J/molxK	1086.47	Joback Method
cpg	1280.61	J/molxK	1120.82	Joback Method
dvisc	0.0007330	Paxs	493.46	Joback Method

dvisc	0.0003330	Paxs	563.67	Joback Method
dvisc	0.0001802	Paxs	633.87	Joback Method
dvisc	0.0001102	Paxs	704.08	Joback Method
dvisc	0.0000737	Paxs	774.29	Joback Method
dvisc	0.0000527	Paxs	844.49	Joback Method
dvisc	0.0000397	Paxs	914.70	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=U382812&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U382812&amp;Units=SI</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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