

# 1,2-Cyclohexanedicarboxylic acid, isobutyl 2,4,6-trichlorophenyl ester

Inchi:	InChI=1S/C18H21Cl3O4/c1-10(2)9-24-17(22)12-5-3-4-6-13(12)18(23)25-16-14(20)7-11(
InchiKey:	JWLXFBMPAPOBSF-UHFFFAOYSA-N
Formula:	C18H21Cl3O4
SMILES:	CC(C)COC(=O)C1CCCCC1C(=O)Oc1c(Cl)cc(Cl)cc1Cl
Mol. weight [g/mol]:	407.72

## Physical Properties

Property code	Value	Unit	Source
gf	-305.13	kJ/mol	Joback Method
hf	-720.85	kJ/mol	Joback Method
hfus	42.80	kJ/mol	Joback Method
hvap	91.12	kJ/mol	Joback Method
log10ws	-6.06		Crippen Method
logp	5.558		Crippen Method
mvol	281.460	ml/mol	McGowan Method
pc	1601.28	kPa	Joback Method
rinpol	2637.00		NIST Webbook
rinpol	2637.00		NIST Webbook
tb	932.17	K	Joback Method
tc	1169.25	K	Joback Method
tf	578.82	K	Joback Method
vc	1.056	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	832.03	J/molxK	932.17	Joback Method
cpg	878.35	J/molxK	1129.74	Joback Method
cpg	872.27	J/molxK	1090.23	Joback Method
cpg	864.60	J/molxK	1050.71	Joback Method
cpg	855.35	J/molxK	1011.20	Joback Method
cpg	844.50	J/molxK	971.68	Joback Method
cpg	882.88	J/molxK	1169.25	Joback Method
dvisc	0.0000595	Paxs	932.17	Joback Method

dvisc	0.0000742	Paxs	873.28	Joback Method
dvisc	0.0000955	Paxs	814.39	Joback Method
dvisc	0.0001279	Paxs	755.50	Joback Method
dvisc	0.0001799	Paxs	696.60	Joback Method
dvisc	0.0002695	Paxs	637.71	Joback Method
dvisc	0.0004384	Paxs	578.82	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=U339807&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U339807&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>

## 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>hvap:</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>logp:</b>	Octanol/Water partition coefficient
<b>m<sub>cvol</sub>:</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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