

# Trans-1,3-cyclobutanediol-2,2,4,4-tetramethyl-, dibenzoate

InChI: InChI=1S/C22H24O4/c1-21(2)19(25-17(23)15-11-7-5-8-12-15)22(3,4)20(21)26-18(24)16  
InChIKey: FODBNEVOMVOTBG-UHFFFAOYSA-N

Formula: C22H24O4

SMILES: CC1(C)C(OC(=O)c2ccccc2)C(C)(C)C1OC(=O)c1ccccc1

Mol. weight [g/mol]: 352.42

CAS: 95164-71-9

## Physical Properties

Property code	Value	Unit	Source
gf	-94.12	kJ/mol	Joback Method
hf	-477.85	kJ/mol	Joback Method
hfus	33.04	kJ/mol	Joback Method
hvap	84.29	kJ/mol	Joback Method
log10ws	-5.75		Crippen Method
logp	4.504		Crippen Method
mcvol	277.340	ml/mol	McGowan Method
pc	1693.51	kPa	Joback Method
tb	906.18	K	Joback Method
tc	1151.67	K	Joback Method
tf	584.36	K	Joback Method
vc	1.042	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	896.66	J/molxK	906.18	Joback Method
cpg	919.02	J/molxK	947.09	Joback Method
cpg	941.71	J/molxK	988.01	Joback Method
cpg	965.03	J/molxK	1028.92	Joback Method
cpg	989.29	J/molxK	1069.84	Joback Method
cpg	1014.80	J/molxK	1110.75	Joback Method
cpg	1041.88	J/molxK	1151.67	Joback Method

# Sources

<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=C95164719&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C95164719&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<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 vap:</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>m cvol:</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

Latest version available from:

<https://www.cheméo.com/cid/96-184-2/Trans-1-3-cyclobutanediol-2-2-4-4-tetramethyl-dibenzoate.pdf>

Generated by Cheméo on 2024-04-30 19:27:39.141490827 +0000 UTC m=+16794508.062068143.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.