

# Sebacic acid, 2,5-dichlorophenyl isobutyl ester

Inchi:	InChI=1S/C20H28Cl2O4/c1-15(2)14-25-19(23)9-7-5-3-4-6-8-10-20(24)26-18-13-16(21)1
InchiKey:	GUEYLGLKJCKYGB-UHFFFAOYSA-N
Formula:	C20H28Cl2O4
SMILES:	CC(C)COC(=O)CCCCCCCC(=O)Oc1cc(Cl)ccc1Cl
Mol. weight [g/mol]:	403.34

## Physical Properties

Property code	Value	Unit	Source
gf	-283.47	kJ/mol	Joback Method
hf	-768.90	kJ/mol	Joback Method
hfus	51.26	kJ/mol	Joback Method
hvap	90.41	kJ/mol	Joback Method
log10ws	-6.80		Crippen Method
logp	6.219		Crippen Method
mcvol	308.260	ml/mol	McGowan Method
pc	1265.55	kPa	Joback Method
rinpola	2792.00		NIST Webbook
tb	920.64	K	Joback Method
tc	1133.87	K	Joback Method
tf	555.78	K	Joback Method
vc	1.188	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	929.62	J/molxK	920.64	Joback Method
cpg	943.37	J/molxK	956.18	Joback Method
cpg	955.91	J/molxK	991.72	Joback Method
cpg	967.26	J/molxK	1027.25	Joback Method
cpg	977.44	J/molxK	1062.79	Joback Method
cpg	986.48	J/molxK	1098.33	Joback Method
cpg	994.41	J/molxK	1133.87	Joback Method
dvisc	0.0003776	Paxs	555.78	Joback Method
dvisc	0.0002124	Paxs	616.59	Joback Method

dvisc	0.0001325	Paxs	677.40	Joback Method
dvisc	0.0000893	Paxs	738.21	Joback Method
dvisc	0.0000640	Paxs	799.02	Joback Method
dvisc	0.0000480	Paxs	859.83	Joback Method
dvisc	0.0000374	Paxs	920.64	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U355087&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U355087&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>mccvol:</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

Latest version available from:

<https://www.chemeo.com/cid/13-908-9/Sebacic-acid-2-5-dichlorophenyl-isobutyl-ester.pdf>

Generated by Cheméo on 2024-04-26 15:32:54.62935471 +0000 UTC m=+16434823.549932021.

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