

# Glutaric acid, 3-iodobenzyl isobutyl ester

<b>Inchi:</b>	InChI=1S/C16H21IO4/c1-12(2)10-20-15(18)7-4-8-16(19)21-11-13-5-3-6-14(17)9-13/h3,5
<b>InchiKey:</b>	GFSIZMDPUHDVMA-UHFFFAOYSA-N
<b>Formula:</b>	C16H21IO4
<b>SMILES:</b>	CC(C)COC(=O)CCCC(=O)OCc1cccc(I)c1
<b>Mol. weight [g/mol]:</b>	404.24

## Physical Properties

Property code	Value	Unit	Source
gf	-225.54	kJ/mol	Joback Method
hf	-566.52	kJ/mol	Joback Method
hfus	37.30	kJ/mol	Joback Method
hvap	81.44	kJ/mol	Joback Method
log10ws	-4.75		Crippen Method
logp	3.704		Crippen Method
mcvol	253.240	ml/mol	McGowan Method
pc	1795.46	kPa	Joback Method
rinpola	2453.00		NIST Webbook
tb	842.42	K	Joback Method
tc	1067.19	K	Joback Method
tf	496.40	K	Joback Method
vc	0.954	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	699.15	J/molxK	842.42	Joback Method
cpg	712.49	J/molxK	879.88	Joback Method
cpg	724.73	J/molxK	917.34	Joback Method
cpg	735.89	J/molxK	954.80	Joback Method
cpg	746.01	J/molxK	992.27	Joback Method
cpg	755.10	J/molxK	1029.73	Joback Method
cpg	763.20	J/molxK	1067.19	Joback Method
dvisc	0.0007277	Paxs	496.40	Joback Method
dvisc	0.0003938	Paxs	554.07	Joback Method

dvisc	0.0002392	Paxs	611.74	Joback Method
dvisc	0.0001584	Paxs	669.41	Joback Method
dvisc	0.0001119	Paxs	727.08	Joback Method
dvisc	0.0000833	Paxs	784.75	Joback Method
dvisc	0.0000645	Paxs	842.42	Joback Method

## Sources

<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=U376984&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U376984&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>

## 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

Latest version available from:

<https://www.chemeo.com/cid/53-937-3/Glutaric-acid-3-iodobenzyl-isobutyl-ester.pdf>

Generated by Cheméo on 2024-04-26 05:41:19.795789337 +0000 UTC m=+16399328.716366659.

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