

# Glutaric acid, 2-(methylthio)phenyl pentyl ester

Inchi:	InChI=1S/C17H24O4S/c1-3-4-7-13-20-16(18)11-8-12-17(19)21-14-9-5-6-10-15(14)22-2/
InchiKey:	HVLSYGZTLSSMCL-UHFFFAOYSA-N
Formula:	C17H24O4S
SMILES:	CCCCOC(=O)CCCC(=O)Oc1ccccc1SC
Mol. weight [g/mol]:	324.44

## Physical Properties

Property code	Value	Unit	Source
gf	-239.68	kJ/mol	Joback Method
hf	-616.88	kJ/mol	Joback Method
hfus	43.14	kJ/mol	Joback Method
hvap	81.50	kJ/mol	Joback Method
log10ws	-4.74		Crippen Method
logp	4.218		Crippen Method
mvol	257.860	ml/mol	McGowan Method
pc	1700.50	kPa	Joback Method
rmpol	2658.00		NIST Webbook
tb	841.38	K	Joback Method
tc	1055.08	K	Joback Method
tf	499.01	K	Joback Method
vc	0.982	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	761.89	J/mol×K	841.38	Joback Method
cpg	776.18	J/mol×K	877.00	Joback Method
cpg	789.28	J/mol×K	912.61	Joback Method
cpg	801.20	J/mol×K	948.23	Joback Method
cpg	811.95	J/mol×K	983.85	Joback Method
cpg	821.53	J/mol×K	1019.46	Joback Method
cpg	829.96	J/mol×K	1055.08	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U377540&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U377540&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.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>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

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