

# L-Mannose, 6-deoxy-, dioctyl mercaptal

<b>Other names:</b>	(l)-rhamnose dioctyl dithioacetal
<b>Inchi:</b>	InChI=1S/C22H46O4S2/c1-4-6-8-10-12-14-16-27-22(21(26)20(25)19(24)18(3)23)28-17-
<b>InchiKey:</b>	SDOOHQUJOHBBFO-UHFFFAOYSA-N
<b>Formula:</b>	C22H46O4S2
<b>SMILES:</b>	CCCCCCCCSC(SCCCCCCCC)C(O)C(O)C(O)C(C)O
<b>Mol. weight [g/mol]:</b>	438.73
<b>CAS:</b>	115395-63-6

## Physical Properties

Property code	Value	Unit	Source
gf	-358.88	kJ/mol	Joback Method
hf	-1048.99	kJ/mol	Joback Method
hfus	59.73	kJ/mol	Joback Method
hvap	142.98	kJ/mol	Joback Method
log10ws	-6.91		Crippen Method
logp	4.963		Crippen Method
mcvol	377.020	ml/mol	McGowan Method
pc	1198.96	kPa	Joback Method
tb	1206.84	K	Joback Method
tc	1576.62	K	Joback Method
tf	574.78	K	Joback Method
vc	1.421	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1364.22	J/molxK	1206.84	Joback Method
cpg	1380.84	J/molxK	1268.47	Joback Method
cpg	1394.84	J/molxK	1330.10	Joback Method
cpg	1406.52	J/molxK	1391.73	Joback Method
cpg	1416.22	J/molxK	1453.36	Joback Method
cpg	1424.26	J/molxK	1514.99	Joback Method
cpg	1430.97	J/molxK	1576.62	Joback Method
hfust	54.70	kJ/mol	387.90	NIST Webbook

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C115395636&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C115395636&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>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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>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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