

# (Z)-3-(Heptadec-10-en-1-yl)phenol

<b>Inchi:</b>	InChI=1S/C23H38O/c1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-18-22-19-17-20-23(24)21-
<b>InchiKey:</b>	BIEZSEGUHJMPKG-FPLPWBNLSA-N
<b>Formula:</b>	C23H38O
<b>SMILES:</b>	CCCCCCC=CCCCCCCCCc1cccc(O)c1
<b>Mol. weight [g/mol]:</b>	330.55
<b>CAS:</b>	111047-33-7

## Physical Properties

Property code	Value	Unit	Source
gf	180.79	kJ/mol	Joback Method
hf	-341.61	kJ/mol	Joback Method
hfus	55.35	kJ/mol	Joback Method
hvap	82.04	kJ/mol	Joback Method
log10ws	-7.95		Crippen Method
logp	7.582		Crippen Method
mcvol	312.740	ml/mol	McGowan Method
pc	1194.00	kPa	Joback Method
rinpol	2703.50		NIST Webbook
tb	837.10	K	Joback Method
tc	1035.72	K	Joback Method
tf	482.03	K	Joback Method
vc	1.161	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	991.85	J/molxK	837.10	Joback Method
cpg	1011.03	J/molxK	870.20	Joback Method
cpg	1029.38	J/molxK	903.31	Joback Method
cpg	1047.01	J/molxK	936.41	Joback Method
cpg	1064.03	J/molxK	969.51	Joback Method
cpg	1080.52	J/molxK	1002.62	Joback Method
cpg	1096.60	J/molxK	1035.72	Joback Method
dvisc	0.0002440	Paxs	482.03	Joback Method

dvisc	0.0000785	Paxs	541.21	Joback Method
dvisc	0.0000316	Paxs	600.39	Joback Method
dvisc	0.0000150	Paxs	659.57	Joback Method
dvisc	0.0000080	Paxs	718.74	Joback Method
dvisc	0.0000047	Paxs	777.92	Joback Method
dvisc	0.0000030	Paxs	837.10	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C111047337&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C111047337&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

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