

# 3-((4Z,7Z)-Heptadeca-4,7-dien-1-yl)phenol

<b>Inchi:</b>	InChI=1S/C23H36O/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>	XARVWPSKIOWJCB-XVTLYKPTSA-N
<b>Formula:</b>	C23H36O
<b>SMILES:</b>	CCCCCCCCC=CCC=CCCCc1cccc(O)c1
<b>Mol. weight [g/mol]:</b>	328.53
<b>CAS:</b>	448252-12-8

## Physical Properties

Property code	Value	Unit	Source
gf	261.01	kJ/mol	Joback Method
hf	-224.39	kJ/mol	Joback Method
hfus	55.55	kJ/mol	Joback Method
hvap	82.00	kJ/mol	Joback Method
log10ws	-7.81		Crippen Method
logp	7.358		Crippen Method
mcvol	308.440	ml/mol	McGowan Method
pc	1238.09	kPa	Joback Method
rinpol	2674.50		NIST Webbook
rinpol	2674.50		NIST Webbook
tb	841.26	K	Joback Method
tc	1043.92	K	Joback Method
tf	476.95	K	Joback Method
vc	1.141	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	965.87	J/molxK	841.26	Joback Method
cpg	984.67	J/molxK	875.04	Joback Method
cpg	1002.72	J/molxK	908.81	Joback Method
cpg	1020.15	J/molxK	942.59	Joback Method
cpg	1037.06	J/molxK	976.37	Joback Method
cpg	1053.58	J/molxK	1010.14	Joback Method
cpg	1069.83	J/molxK	1043.92	Joback Method

dvisc	0.0002364	Paxs	476.95	Joback Method
dvisc	0.0000728	Paxs	537.67	Joback Method
dvisc	0.0000285	Paxs	598.39	Joback Method
dvisc	0.0000132	Paxs	659.11	Joback Method
dvisc	0.0000070	Paxs	719.82	Joback Method
dvisc	0.0000041	Paxs	780.54	Joback Method
dvisc	0.0000026	Paxs	841.26	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C448252128&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C448252128&amp;Units=SI</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>mvol:</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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