

1-(4-Hydroxy-3-methoxyphenyl)dodec-1-ene-3,5-d

Inchi:	InChI=1S/C19H26O4/c1-3-4-5-6-7-8-16(20)14-17(21)11-9-15-10-12-18(22)19(13-15)23-2
InchiKey:	QOJHXMDTWFYFRL-PKQBNSA-N
Formula:	C19H26O4
SMILES:	CCCCCCCC(=O)CC(=O)C=Cc1ccc(O)c(OC)c1
Mol. weight [g/mol]:	318.41
CAS:	748159-34-4

Physical Properties

Property code	Value	Unit	Source
gf	-225.36	kJ/mol	Joback Method
hf	-627.90	kJ/mol	Joback Method
hfus	48.99	kJ/mol	Joback Method
hvap	89.70	kJ/mol	Joback Method
log10ws	-4.71		Crippen Method
logp	4.303		Crippen Method
mvol	265.390	ml/mol	McGowan Method
pc	1713.19	kPa	Joback Method
rinpol	2823.60		NIST Webbook
tb	880.72	K	Joback Method
tc	1095.04	K	Joback Method
tf	571.56	K	Joback Method
vc	0.968	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	819.64	J/molxK	880.72	Joback Method
cpg	834.41	J/molxK	916.44	Joback Method
cpg	848.48	J/molxK	952.16	Joback Method
cpg	861.93	J/molxK	987.88	Joback Method
cpg	874.85	J/molxK	1023.60	Joback Method
cpg	887.32	J/molxK	1059.32	Joback Method
cpg	899.44	J/molxK	1095.04	Joback Method
dvisc	0.0000786	Paxs	571.56	Joback Method

dvisc	0.0000371	Paxs	623.09	Joback Method
dvisc	0.0000196	Paxs	674.61	Joback Method
dvisc	0.0000114	Paxs	726.14	Joback Method
dvisc	0.0000071	Paxs	777.67	Joback Method
dvisc	0.0000047	Paxs	829.19	Joback Method
dvisc	0.0000033	Paxs	880.72	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C748159344&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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