

5-Tridecylbenzene-1,3-diol

Inchi:	InChI=1S/C19H32O2/c1-2-3-4-5-6-7-8-9-10-11-12-13-17-14-18(20)16-19(21)15-17/h14-18
InchiKey:	UXOGOSLLGMYCNL-UHFFFAOYSA-N
Formula:	C19H32O2
SMILES:	CCCCCCCCCCCCc1cc(O)cc(O)c1
Mol. weight [g/mol]:	292.46
CAS:	5259-01-8

Physical Properties

Property code	Value	Unit	Source
gf	-87.73	kJ/mol	Joback Method
hf	-553.58	kJ/mol	Joback Method
hfus	50.57	kJ/mol	Joback Method
hvap	86.19	kJ/mol	Joback Method
log10ws	-5.97		Crippen Method
logp	5.951		Crippen Method
mvol	266.550	ml/mol	McGowan Method
pc	1717.45	kPa	Joback Method
rinpol	2591.00		NIST Webbook
rinpol	2591.00		NIST Webbook
tb	822.04	K	Joback Method
tc	1026.39	K	Joback Method
tf	553.75	K	Joback Method
vc	0.923	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	841.60	J/molxK	822.04	Joback Method
cpg	922.41	J/molxK	992.33	Joback Method
cpg	906.94	J/molxK	958.27	Joback Method
cpg	891.24	J/molxK	924.21	Joback Method
cpg	875.20	J/molxK	890.16	Joback Method
cpg	858.69	J/molxK	856.10	Joback Method
cpg	937.77	J/molxK	1026.39	Joback Method

dvisc	0.0000003	Paxs	822.04	Joback Method
dvisc	0.0000005	Paxs	777.33	Joback Method
dvisc	0.0000010	Paxs	732.61	Joback Method
dvisc	0.0000018	Paxs	687.89	Joback Method
dvisc	0.0000037	Paxs	643.18	Joback Method
dvisc	0.0000086	Paxs	598.47	Joback Method
dvisc	0.0000225	Paxs	553.75	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C5259018&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	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:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mvol:	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

Latest version available from:

<https://www.cheméo.com/cid/82-009-1/5-Tridecylbenzene-1-3-diol.pdf>

Generated by Cheméo on 2024-04-27 10:06:15.10284368 +0000 UTC m=+16501624.023421003.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.