

2,6-di-tert-butyl-«alpha»-(3,5-di-tert-butyl-4-oxocy

Other names:	Galvinoxyl radical
Inchi:	InChI=1S/C29H41O2/c1-18(2)9-24-14-22(15-25(28(24)30)10-19(3)4)13-23-16-26(11-20(
InchiKey:	GOVAISVZGLQKDS-UHFFFAOYSA-N
Formula:	C29H41O2
SMILES:	CC(C)CC1=CC(=Cc2cc(CC(C)C)c([O])c(CC(C)C)c2)C=C(CC(C)C)C1=O
Mol. weight [g/mol]:	421.63
CAS:	2370-18-5

Physical Properties

Property code	Value	Unit	Source
log10ws	-13.11		Crippen Method
logp	8.139		Crippen Method
mcvol	377.240	ml/mol	McGowan Method
ss	670.10	J/molxK	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	654.28	J/molxK	298.15	NIST Webbook

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2370185&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cps:	Solid phase heat capacity
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
ss:	Solid phase molar entropy at standard conditions

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