

Chrysophanol

Inchi:	InChI=1S/C15H10O4/c1-7-5-9-13(11(17)6-7)15(19)12-8(14(9)18)3-2-4-10(12)16/h2-6,16
InchiKey:	LQGUBLBATBMXHT-UHFFFAOYSA-N
Formula:	C15H10O4
SMILES:	Cc1cc(O)c2c(c1)C(=O)c1cccc(O)c1C2=O
Mol. weight [g/mol]:	254.24
CAS:	481-74-3

Physical Properties

Property code	Value	Unit	Source
hf	-472.96	kJ/mol	Cheméo Relay (1.0)
hfus	31.27	kJ/mol	Joback Method
ie	8.19	eV	Cheméo Relay (1.0)
log10ws	-4.48		Cheméo Relay (1.0)
logp	2.182		Crippen Method
mcvol	178.710	ml/mol	McGowan Method
tf	469.15	K	Jean-Claude Bradley Open Melting Point Dataset (2014, CC0)

Correlations

Information	Value
Property code	cpg
Equation	$Y = A + B \cdot T + C \cdot T^2 + D \cdot T^3 + E \cdot T.$
Y unit	J/mol×K
Coeff. A	-3.17000e+01
Coeff. B	1.25212e+00
Coeff. C	-1.00020e-03
Coeff. D	3.41200e-07
Coeff. E	0.00000e+00
Basis	predicted
Temperature range (K), min.	273.00
Temperature range (K), max.	1000.00

Sources

Cheméo Relay (1.0, beta):

Jean-Claude Bradley Open Melting
Point Dataset (2014, CC0):
Joback Method:

https://figshare.com/articles/Jean_Claude_Bradley_Open_Melting_Point_Dataset/1031637

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Cheméo Relay (1.0):

Legend

cpg:	Ideal gas heat capacity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tf:	Normal melting (fusion) point

Latest version available from:

<https://www.chemeo.com/cid/101-675-0/Chrysophanol.pdf>

Generated by Cheméo on 2026-10-30 20:05:05.847559065 +0000 UTC m=+14418.774396322.

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