

Capacité calorifique standard C_p° (en $J.K^{-1}.mol^{-1}$), à 298.15 K

Substance	$\overline{C_p^\circ}$
H(g)	20.78
H ₂ (g)	28.82
D ₂ (g)	29.2
HD(g)	29.2

Groupe 0	
He(g)	20.79
Ne(g)	20.79
Ar(g)	20.79
Kr(g)	20.79
Xe(g)	20.79
Rn(g)	20.79

Groupe I	
Li(s)	24.77
Li(g)	20.79
Na(s)	28.24
Na(g)	20.79
NaO ₂ (s)	72.13
Na ₂ O(s)	69.12
Na ₂ O ₂ (s)	89.24
NaOH(s)	59.54
NaCl(s)	50.5
NaCl(g)	35.77
Na ₂ SO ₄ (s)	127.61
Na ₂ SO ₄ .10H ₂ O(s)	587.4
Na ₂ CO ₃ (s)	112.3
K(s)	29.58
K(g)	20.79

Substance	$\overline{C_p^\circ}$
KOH(s)	64.9
KCl(s)	51.3
KNO ₃ (s)	107.4
KMnO ₄ (s)	117.57

Groupe II	
Mg(s)	24.89
MgO(s)	37.15
Mg(OH) ₂ (s)	77.03
Ca(s)	25.31
CaF ₂ (s)	67.02
CaO(s)	42.8
Ca(OH) ₂ (s)	87.49
CaCO ₃ (calcite)	81.88
Ca ₃ (PO ₄) ₂ (s)	227.82

Groupe III	
B(s)	11.09
B ₂ O ₃ (s)	62.93
B ₂ H ₆ (g)	56.9
BF ₃ (g)	50.46
Al(s)	24.35
Al ₂ O ₃ (corundum)	79.04

Groupe IV	
C(graphite)	8.53
C(diamant)	6.11
C(g)	20.84
CO(g)	29.14

Substance	$\overline{C_p^\circ}$
CH ₄ (g)	35.31
HCHO(g)	35.4
HCO ₂ H(l)	99.04
CH ₃ OH(l)	81.6
CH ₃ OH(g)	43.89
CCl ₄ (l)	131.75
CCl ₄ (g)	83.3
CHCl ₃ (l)	115.5
CHCl ₃ (g)	65.69
CS ₂ (l)	75.7
CS ₂ (g)	45.4
HCN(g)	35.86
C ₂ H ₂ (g)	43.93
C ₂ H ₄ (g)	43.56
C ₂ H ₆ (g)	52.63
CH ₃ COOH(l)	124.3
CH ₃ COOH(g)	66.5
C ₂ H ₅ OH(l)	111.46
C ₂ H ₅ OH(g)	65.44
(CH ₃) ₂ O(g)	64.39
C ₃ H ₆ (propène)(g)	63.89
C ₃ H ₆ (cyclopropane)(g)	55.94
C ₃ H ₈ (propane)(g)	73.51
C ₄ H ₈ (1-butène)(g)	85.65
C ₄ H ₈ (cis-2-butène)(g)	78.91
C ₄ H ₈ (trans-2-butène)(g)	87.82
C ₄ H ₁₀ (butane)(g)	97.45
C ₄ H ₁₀ (isobutane)(g)	96.82
Substance	$\overline{C_p^\circ}$

Groupe IV (suite)	
C ₆ H ₆ (benzène)(g)	81.67
C ₆ H ₁₂ (cyclohexane)(g)	106.27
C ₆ H ₁₄ (hexane)(g)	143.09
C ₇ H ₈ (toluène)(g)	103.64
C ₈ H ₁₈ (octane)(g)	188.87
Si(s)	20
SiO ₂ (quartz)	44.43
SiC(c, cubique)	26.86

N(g)	20.79
N ₂ (g)	29.12
NO(g)	29.84
NO ₂ (g)	37.2
N ₂ O(g)	38.45
N ₂ O ₃ (g)	65.61
N ₂ O ₄ (g)	77.28
N ₂ O ₅ (g)	84.5
NH ₃ (g)	35.06
N ₂ H ₄ (l)	98.87
N ₂ H ₄ (g)	49.58
HNO ₃ (g)	53.35
NH ₄ NO ₃ (s)	139.3
P(s, blanc)	23.84
P(s, rouge)	21.21
P(g)	20.79
P ₄ O ₁₀ (s)	211.71
PH ₃ (g)	37.11
Substance	\overline{C}_P^0
Groupe VI	
O(g)	21.91
O ₂ (g)	29.36

OH(g)	29.89
H ₂ O(l)	75.29
H ₂ O(g)	33.58
H ₂ O ₂ (l)	89.1
H ₂ O ₂ (g)	33.81
S(s, rhombique)	22.64
S(s, monoclinique)	23.69
S(g)	23.67
S ₂ (g)	32.47
SO(g)	30.16
SO ₂ (g)	39.87
SO ₃ (g)	50.67
H ₂ S(g)	34.23
SF ₆ (g)	97.28

F(g)	22.74
F ₂ (g)	31.3
HF(g)	29.13
Cl(g)	21.84
Cl ₂ (g)	33.91
HCl(g)	29.12
Br(g)	20.79
Br ₂ (l)	75.69
Br ₂ (g)	36.02
HBr(g)	29.14
BrCl(g)	34.98
I(g)	20.79
I ₂ (s)	54.44
Substance	\overline{C}_P^0
HI(g)	29.16

Métaux	
Mn(s)	26.32
MnO ₂ (s)	54.14

Fe(s)	25.1
Fe ₂ O ₃ (s, hématite)	103.85
Fe ₃ O ₄ (s, magnétite)	143.43
Cu(s)	24.44
Cu(g)	20.79
CuO(s)	42.3
Cu ₂ O(s)	63.64
CuSO ₄ (s)	100
CuSO ₄ ·5H ₂ O(s)	280
Zn(s)	25.4
ZnS(s, wurtzite)	
ZnS(s, sphalérite)	46
Ag(s)	25.35
Ag(g)	20.79
Ag ₂ O(s)	65.86
AgCl(s)	50.79
AgBr(s)	52.4
AgNO ₃ (s)	93.05
Hg(l)	27.98
HgO(s, rouge)	44.06
Pb(s)	26.44
PbCl ₂ (s)	77