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Comparison of PBEsol and AM05, employing two different codes:
EMTO-KKR: M. Ropo, K. Kokko, and L. Vitos, PRB **77** 195445 (2008).
VASP 5.1: Joachim Paier (unpublished) or myself (unpublished).

Lattice const. A			**Bulk moduli GPa**		
Solid	PBEsol	AM05	Solid	PBEsol	AM05
BN	3.609	3.607	BN	384	383
BP	4.522	4.520	BP	168	167
C	3.556	3.553	C	447	449
Si	5.429	5.431	Si	93.3	92.3
GaN	4.494	4.492	GaN	187	185
GaP	5.438	5.442	GaP	84.1	82.1
GaAs	5.665	5.673	GaAs	68.6	66.5
α-Al2O3	5.139	5.141	α-Al2O3	244	241
MgO	4.222	4.228	MgO	157	154
Cr	2.82	2.82	Cr	274	273
Fe	2.79	2.79	Fe	220	223
Ta	3.29	3.29	Ta	188	188
Mo	3.139	3.134	Mo	283	284
Nb	3.27	3.27	Nb	160	162
V	2.96	2.96	V	188	187
W	3.16	3.16	W	305	307
Ru	2.95	2.94	Ru	336	339
Tc	3.00	3.00	Tc	310	312
Y	3.93	3.94	Y	38.2	37.5
Zr	3.50	3.51	Zr	93.0	93.1
Al	4.016	4.007	Al	81.7	85.7
Au	4.10	4.09	Au	170	168
Cu	3.569	3.567	Cu	163	162
Ir	3.85	3.85	Ir	376	382
Ni	3.47	3.47	Ni	223	222
Pb	4.93	4.93	Pb	50.1	53.0
Pd	3.877	3.871	Pd	202	200
Pt	3.94	3.93	Pt	281	283
Rh	3.780	3.773	Rh	294	295
Ag	4.052	4.054	Ag	118	113

The differences between AM05 and PBEsol are for these solids very difficult, if at all possible, to resolve.